

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

UIC FORM 1

APPLICATION FOR INJECTION WELL

Name of Operator Kerr-McGee Oil & Gas Onshore, L.P.	Utah Account Number N 2115	Well Name and Number Wellington Fed 31-30 SWD
Address of Operator 1099 18th St Ste 1200 <small>CITY</small> Denver <small>STATE</small> CO <small>ZIP</small> 80202	Phone Number (720) 929-6000	API Number Not Issued 43-007-31375
Location of Well Footage : 2332' FEL, 731 FNL County : Carbon		Field or Unit Name Unnamed
QQ, Section, Township, Range: NWNE 30 14S 11E State : UTAH		Lease Designation and Number

Is this application for expansion of an existing project? Yes No

Will the proposed well be used for:	Enhanced Recovery?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Disposal?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Storage?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Is this application for a new well to be drilled? Yes No

If this application is for an existing well, has a casing test been performed? Yes No

Date of test: _____

Proposed injection interval: from 4,493 to 5,173 *(900# is the average?)*

Proposed maximum injection: rate 10,000 bpd pressure 1,000 psig

UIC-347.1

Proposed injection zone contains oil , gas , and / or fresh water within 1/2 mile of the well.

List of attachments: _____

**ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT
UTAH OIL AND GAS CONSERVATION GENERAL RULES**

I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) Martin W. Buys

Signature *Martin W. Buys*

Title Agent for Kerr-McGee

Date 3/20/08



Martin W. Buys
President

300 E. Mineral Ave., Suite 10 • Littleton, CO 80122-2655
303/781-8211 • Fax 303/781-1167 • Mobile 303/808-0068
email: mbuys@buysandassociates.com

March 20, 2008

Mr. Brad Hill
Utah Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

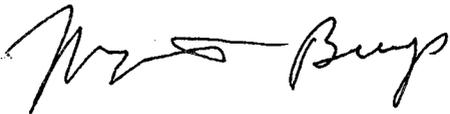
RE: Kerr-McGee Oil & Gas Onshore, Inc.
UIC Permit Application - Cardinal Draw Field
Wellington Federal 31-30 SWD
731' FNL & 2332' FEL
Sec 30, T14S, R11E
Carbon County, Utah

Dear Mr. Hill:

Attached is the permit application and supporting documents to convert a new well to an injection well for produced water from the Cardinal Draw Field. The well has not been drilled yet so the logs and other downhill information are not available. Downhole data will be sent to you as soon as it becomes available.

Please contact me with any questions you may have.

Sincerely,
BUYS & ASSOCIATES, INC.



Martin W. Buys
Agent for Kerr-McGee

**UNDERGROUND INJECTION CONTROL
PERMIT APPLICATION**

**Wellington Federal 31-30 SWD (FGA 32-30)
731' FNL & 2332' FEL
SEC. 30, T14S, R11E
Carbon County, Utah**

March 2008

Prepared for:

Mr. Brad Hill
Utah Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Prepared by:

BUYS & ASSOCIATES, INC.
300 E. Mineral Ave., Suite 10
Littleton, Colorado 80122
(303) 781-8211
FAX (303) 781-1167

Wellington Federal 31-30 SWD

LIST OF ATTACHMENTS

- | | |
|-------------------|---|
| Attachment No. 1 | Area Map |
| Attachment No. 2 | Site Map – Radius Map of Adjacent Wells |
| Attachment No. 3 | Master Drilling Prognosis |
| Attachment No. 4 | Navajo Structure Map |
| Attachment No. 5 | Cross-Sections of the injection formation |
| Attachment No. 6 | Water Analysis |
| Attachment No. 7 | Completion data for all wells in the AOR |
| Attachment No. 8 | CBL for the UIC well |
| Attachment No. 9 | Open hole log for the UIC well |
| Attachment No. 10 | List of owners and Affidavit Notification |
| Attachment No. 11 | Well bore diagrams for the UIC well |
| Attachment No. 12 | P&A procedure |
| Attachment No. 13 | MIT procedure |

SUMMARY DOCUMENT
UIC WELL APPLICATION
Wellington Federal 31-30 SWD

Kayenta (?)
The following document contains information provided in support of the Kerr-McGee's application for the drilling and completion of the Wellington Federal 31-30 SWD well as an injection well in Navajo and Wingate formations in the Cardinal Draw Field in Carbon County, Utah. The well was originally the Wellington Fed. 32-30 SWD but was moved to its current location during the BLM onsite.

- (1) Kerr-McGee is the operator and major working interest owner of wells located in the Cardinal Draw Field, Carbon County, Utah. Kerr-McGee's business address is provided below:

Kerr-McGee Oil & Gas Onshore, L.P.
1099 18th Street
Denver, Colorado 80202

- (2) Enclosed as Attachment No. 1 (Area Map), is an area map containing the Wellington Federal 31-30 SWD.
- (3) Attachment No. 2 is a plat of the well. This plat shows a circle of one-half mile radius centered on the Wellington Federal 31-30. The 1/2 mile radius encompasses the area of the review (AOR), within which ~~Anadarko~~ ^{Kerr-McGee} is required to investigate all wells for mechanical integrity. The 1/2 mile radius also identifies those lands, the owners thereof, which must be provided notice of this application.

There are no oil and gas wells located within the AOR. All surface and mineral owners and operators within 1/2 mile are identified.

- (4) ~~Anadarko~~ ^{? Kerr-McGee} proposes to utilize the Wellington Federal 31-30 as an injection well for disposal of produced water from the Ferron coal wells located in the Cardinal Draw field.
- (5) The well is to be drilled in the Spring of 2008. Attachment No. 3 contains the Master Drilling prognosis for the SWD well. It also contains the Drilling Prognosis for the Wellington Federal 31-30 SWD
- (5) Injection Zone – The Navajo, Kayenta and Wingate are the target injection intervals and are located between 4493' and 5173'. The bounding beds are the Carmel formation above and the Chinle formation below. The Carmel contains impermeable shales and sandstones with little to no porosity and very low permeability, while the Chinle contains impermeable shales. These bounding formations will ensure that water injected stays confined to the target zones.

There are no nearby Underground Sources of Drinking Water at this depth.

Attachment No. 4 is a structure map showing the Wellington Federal 22-04 SWD well. This structure map is comparable with what is expected to be encountered in the Wellington Federal 31-30 SWD.

Attachment No. 5 is a cross-section of the top of the Carmel Formation and the injection zones.

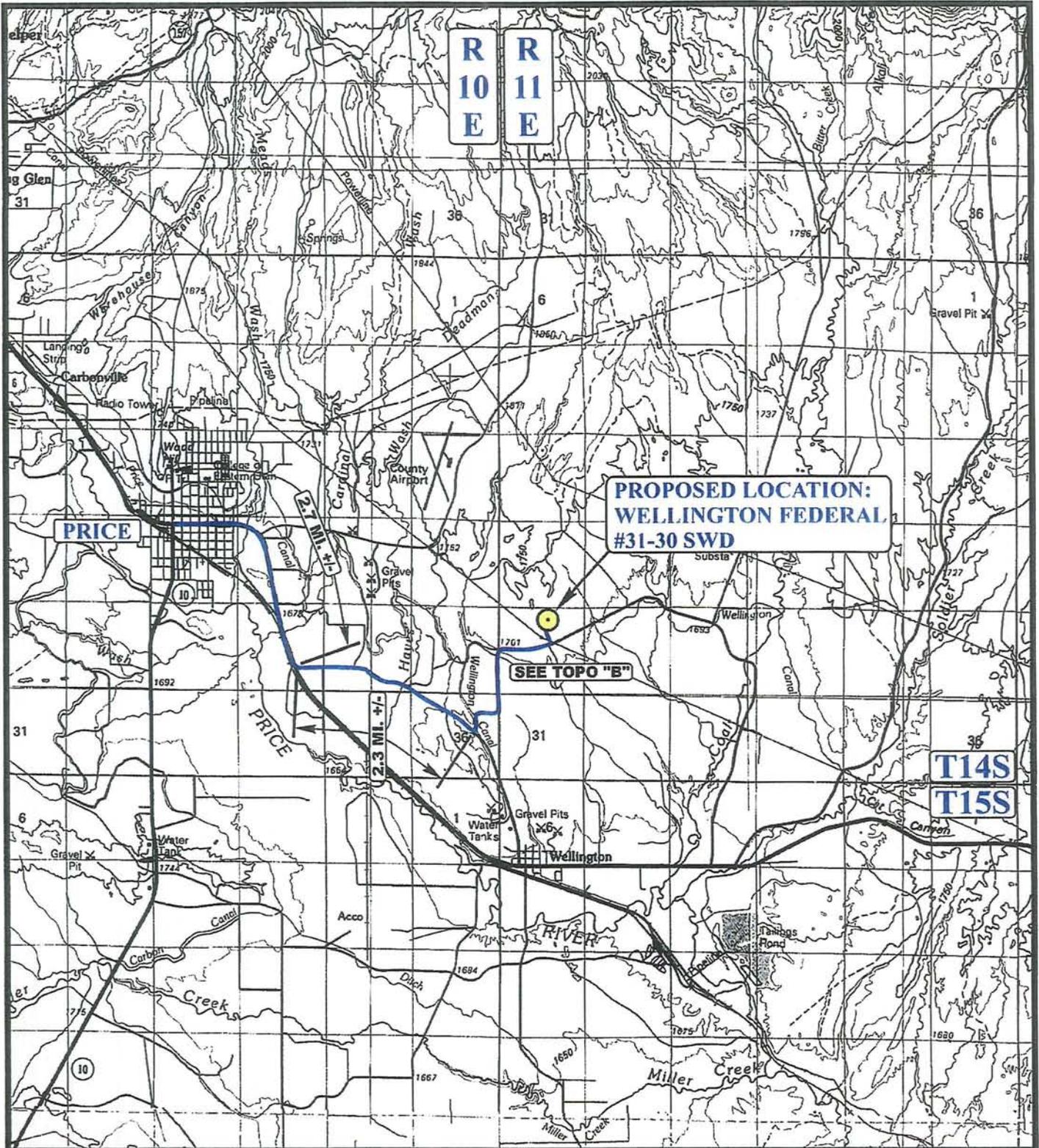
- (6) Enclosed as Attachment No. 6 are standard analyses of produced water from 2 wells currently producing in this area. The analysis of the Wingate formation water is from the Wellington 22-04 and the Wellington 44-06 SWD. The 22-04 SWD contains 78,973 ppm of Total Dissolved Solids and the 44-06 SWD contains 25,774 ppm TDS.
- (7) There are no wells within a ½ mile radius of proposed injection well, therefore no completion or mechanical condition data will be provided for any other wells.
- (8) A copy of a cement bond log for the proposed injection well will be run after the casing is set and cemented.
- (9) Copies of the gamma ray logs and open hole logs for the proposed well will be provided when the well is drilled.
- (10) A list of owners is contained in Attachment No. 9. The Affidavit Notification will be sent once the data from the drilling and completion of the well.
- (11) The fracture gradient will be calculated once the well is drilled and completed. The proposed average injection pressure is 900 psig and maximum injection pressure is 1000 psig. The injected fluid will be water produced from the Ferron Formation. It is anticipated that the maximum injection rate will be 10,000 bpd.
- (12) Two wellbore diagrams will be prepared once the well is drilled and completed.
- (13) The P&A procedure for this well is contained in Attachment No. 11.
- (14) Once the APD is issued, ~~Anadarko~~ ^{Kerr-McGee} will drill and complete the well. ~~Anadarko~~ ^{Kerr-McGee} will conduct an MIT test, a step rate test and a static bottom-hole pressure test. An MIT procedure is contained in Attachment No. 12. The conversion work will be satisfactory completed and submitted to DOGM for approval.

Ken-McGee
(15) ~~Anadarko~~ will drill, complete and operate this well under their nation wide bond. That bond number is BLM - WYB000291.

Ken-McGee
(16) ~~Anadarko~~ will install various gauges on the well so that the injection pressure, tubing/ casing annulus pressure can be monitored. The well will be equipped with a flow meter with a cumulative volume recorder.

ATTACHMENT NO. 1

AREA MAP



**PROPOSED LOCATION:
WELLINGTON FEDERAL
#31-30 SWD**

SEE TOPO "B"

**T14S
T15S**

LEGEND:

 **PROPOSED LOCATION**



**Kerr-McGee Oil & Gas Onshore LP
WELLINGTON FEDERAL #31-30 SWD
SECTION 30, T14S, R11E, S.L.B.&M.
731' FNL 2332' FEL**

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

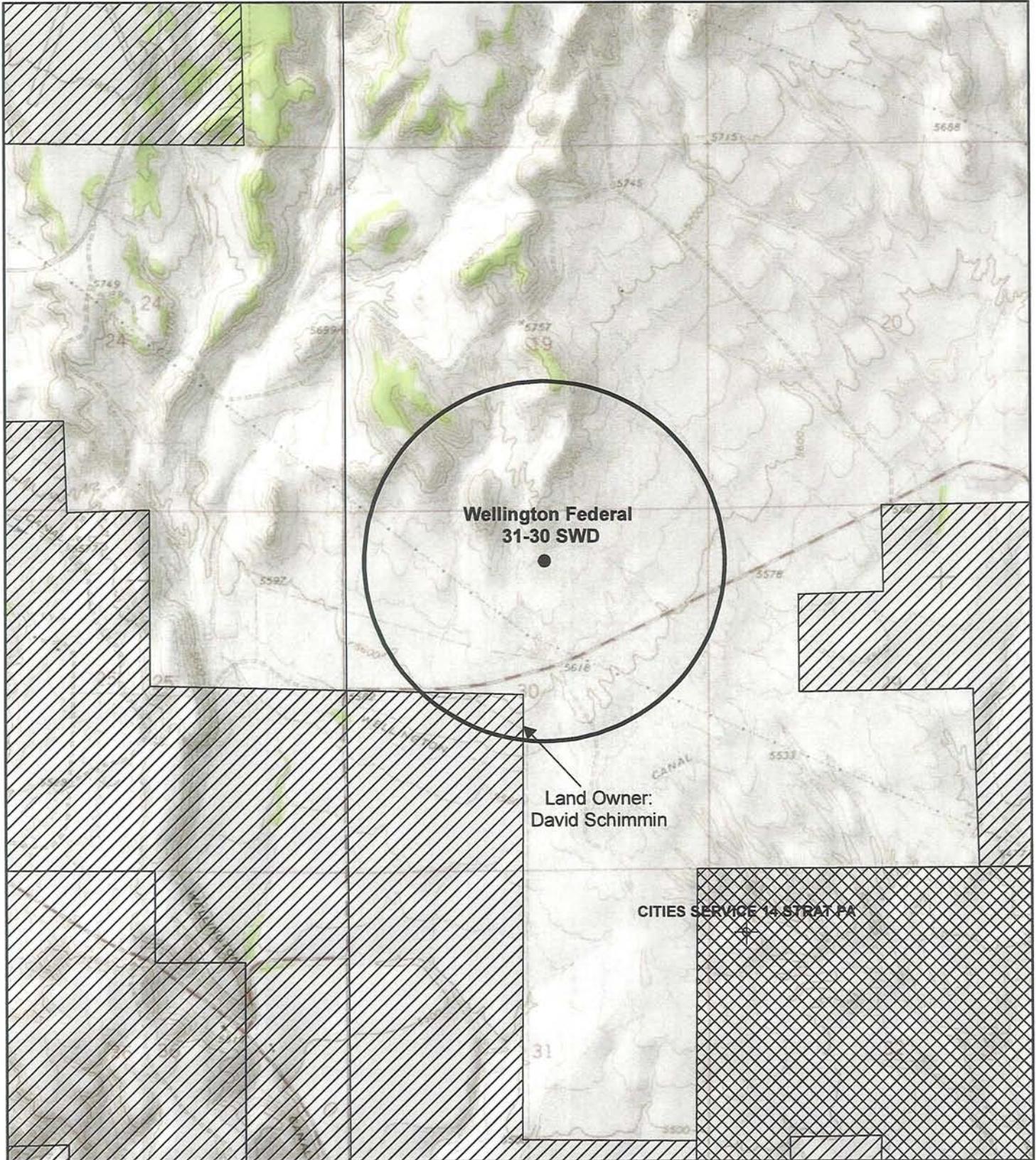
TOPOGRAPHIC **01 08 08**
MAP MONTH DAY YEAR
SCALE: 1:100,000 DRAWN BY: ZL. REVISED: 00-00-00



ATTACHMENT NO. 2

SITE MAP

**RADIUS MAP OF
ADJACENT WELLS**



Project Location



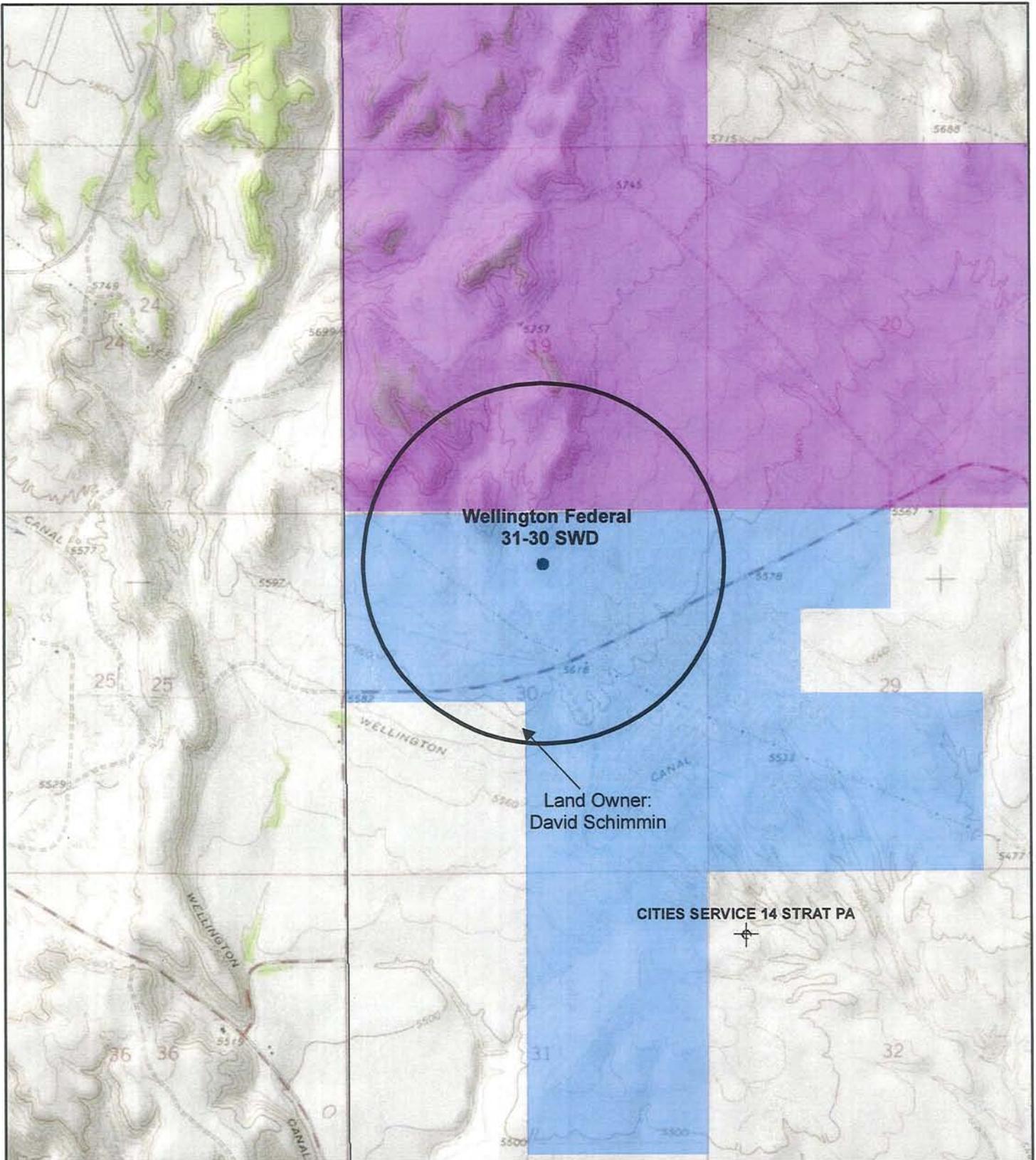
-  BLM
-  PRIVATE
-  STATE
-  Proposed Well
-  Half Mile Buffer
-  P & A



Scale = 1:24,000

Buys & Associates, Inc.

Kerr-McGee Oil & Gas Onshore LP
 Wellington Federal 31-30 SWD
 Land Ownership
 Sec. 30, T14S, R11E
 Carbon County, Utah



**Wellington Federal
31-30 SWD**

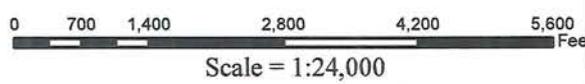
Land Owner:
David Schimmin

CITIES SERVICE 14 STRAT PA

Project Location



- Kerr-McGee Lease UTU-080563
- Kerr-McGee Lease UTU-080565
- Private
- Proposed Well
- Half Mile Buffer
- P & A



Buys & Associates, Inc.

Kerr-McGee Oil & Gas Onshore LP
 Wellington Federal 31-30 SWD
 Lease Holds
 Sec. 30, T14S, R11E
 Carbon County, Utah

ATTACHMENT NO. 3

**MASTER DRILLING PROGNOSIS FOR THE SWD WELL
DRILLING PROGNOSIS FOR THE WELLINGTON FEDERAL 31-30 SWD
LIST OF FORMATION TOPS**



Kerr-McGee Oil & Gas Onshore LP Geological Prognosis

- DEV.
- DEV. - Earn
- EXPL. - Earn
- Other

11 NWNW	21 NENW	31 NWNE	41 NENE
12 SWNW	22 SENW	32 SWNE	42 SENE
13 NWSW	23 NESW	33 NWSE	43 NESE
14 SWSW	24 SESW	34 SWSE	44 SESE

Well Name: **Wellington Federal 31-30 SWD fka 32-30**
30 14S 11E Carbon UT
 Section Township Range County State

NWNE, 731' FNL, 2332' FEL SW NE 1920 FNL & 1877 FEL
 Surface Location: Qtr/Qtr Footages

Lease Type: **FEE**

Prospect: **Cardinal Draw**

Field: **Undesignated**

NA
 Bottom Hole Location: Qtr/Qtr Footages

Proposed TD: **5,173** Form. at TD: **Wingate** Elev. Est KB: **5610** GR: **5600**

Optimum Direction - Maximum Distance Location Can Be Moved: _____

Formation	Drilling Depth ft. (SubSea)		Lithology	Geological Hazards
	Surface			
Mancos	760	4,850	Shale	
Ferron	1,143	4,457	Sandstone, coal, shale	Gas
Tununk	1,473	4,127	Shale and Shale	Potential gas and water
Dakota	2,223	3,377	Shale and Shale	
Morrison	2,823	2,777	Shale	
Sumerville	3,223	2,377	Shaly tight Sand	
Curtis	3,388	2,212	Shaly Sand	
Entrada	3,968	1,632	Limestone, Dolo, Anhy, Shale	
Carmel	4,493	1,107	Sand	SWD
Navajo	4,843	757	Sand	SWD
Kayenta	4,873	727	Sand	SWD
Wingate	5,173	427		
Total Depth				

SAMPLE PROGRAM

Comments: _____
 Interval _____ From _____ To _____

- YES
 NO
 UNMANNED
 ONE MAN
 TWO MAN

CORRELATION LOGS

Operator	Well Name						
	Qtr/Qtr	Section	Township	Range	County	State	

Operator	Well Name						
	Qtr/Qtr	Section	Township	Range	County	State	

LOGS								
<input checked="" type="checkbox"/>	SFL - Induction	surface	To	TD				
<input type="checkbox"/>	MSFL - Dual Laterolog		To					
<input type="checkbox"/>	SFL-Phasor Induction		To					
<input type="checkbox"/>	Acoustic		To					
<input type="checkbox"/>	High Resolution Bulk Density		To					
<input type="checkbox"/>	CNL-Density / Neutron		To					
<input type="checkbox"/>	Spectral Gamma Ray		To					
<input checked="" type="checkbox"/>	Tri-Combo	Surface	To	TD				
<input type="checkbox"/>	Other:		To					
<input type="checkbox"/>	Other:		To					

From & To: _____

TYPE OF LOGS

DST _____
 Core _____
 Fracture _____
 Other _____

Notifications: Business Cellular Home

Prepared By: **Ann Puchalski** Ann Puchalski 720 929-6008 303 501-5740

Dated: **November 29, 2007**

Comments:

Moved original location due to on-site with BLM Dec 17 & 18, 2008 - was in the middle of a prairie dog colony.

Visual disturbance concern by BLM based on close proximity to Coal Mine Road...

**KERR-MCGEE OIL & GAS ONSHORE LP
 FERRON COAL PROJECT
 WELLINGTON FEDERAL 31-30 SWD
 NWN 731' FEL, 2332'
 Section 30: Township 14 South – Range 11 E
 Carbon County, Utah**

DRILLING PROGNOSIS:

1. Prepare location for drilling rig. Drill rat hole and mouse hole. *size?*
2. Drill a 24" hole to approximately 60' and set conductor pipe. Install a diverter on the conductor pipe.
3. Drill a 17.5" hole to approximately 600'. Run an electronic multi-shot after reaching surface-hole total depth. Run 13.375" surface casing and cement as specified in the casing and cementing sections of the Master Drilling Plan. Thread lock guide shoe, float collar and bottom two joints of casing. Run two joints of casing between the float shoe and the float collar.
4. Waiting on cement time shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out. Provide 24 hours prior notice to BLM office for BOP test.
5. Cut off casing, weld on head and nipple up BOP. Pressure test BOP and BOPE to 3000 psi and 250 psi for 15 minutes. Test BOP and BOPE with a test plug.
6. After BOP test, test the surface casing to 70% of burst. Test pressure = 0.70 x 2380 psi = 1650 psi.
7. Drill stage collar, float shoe and 10' of new formation. Run shoe test to 10.5 ppg EMW.
8. Drill a 12.25" hole to the base of the Dakota with conventional rotary techniques and insert bits and air mud system.
9. Run single point directional survey with every bit trap.
10. Run open hole log as follows:

Logging Tool	Top Interval Logged	Bottom Interval Logged
Induction/GR/SP	Base of surface casing	Total Depth
CNL-FDC (High Resolution)	Base of surface casing	Total Depth

11. Run 9.625" intermediate casing and cement as specified in the casing and cementing sections of the Master Drilling Plan. Thread lock guide shoe, float collar and bottom two joints of casing. Run two joints of casing between the float shoe and the float collar.
12. Waiting on cement time shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out. Provide 24 hours prior notice to BLM office for BOP test.
13. Cut off casing, weld on head and nipple up BOP. Pressure test BOP and BOPE to 3000 psi and 250 psi for 15 minutes. Test BOP and BOPE with a test plug.

14. After BOP test, test the intermediate casing to 3000 psi.

15. Drill 8.875" hole to Total Depth (estimated @ 5173').

16. Run open hole logs as follows:

Logging Tool	Top Interval Logged	Bottom Interval Logged
Introduction/GR/SP	Base of intermediate casing	Total Depth
CNL-FDC	Base of intermediate casing	Total Depth

17. Pending log evaluation, run sidewall cores or prepare to run 7" casing and cement in full tension as specified in the casing and cementing section of the Master Drilling Program.

18. Clean the location and release the drilling rig.

**Cardinal Draw Plan of Development
Carbon County, Utah**

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

MASTER DRILLING PROGNOSIS SALT WATER DISPOSAL WELLS

WELL LIST:

Wellington Fed 41-25 SWD
Wellington Fed 31-30 SWD

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

<u>Formation</u>	<u>Shallowest Depth</u>		<u>Deepest Depth</u>	
	<u>Measured</u>	<u>Sub Sea</u>	<u>Measured</u>	<u>Sub Sea</u>
Ferron	674	5600	1354	6300
B Ferron	1060	4540	1080	4540
Tunhuck Shale	1143	4457	1163	4457
Wingate	4873	727	4893	727
TD	5173		5193	

2. ESTIMATED DEPTH OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS

Primary Objective: Wingate Water Injection Zone

Several coal seams may be tested for gas producing formations to total depth. All shallow water zones will be protected with casing and cement. Cement will be circulated to 700' above the Ferron unless water zones are encountered.

The casing and cementing programs shall be conducted as approved to protect and/or isolate all usable water zones and any prospectively valuable deposits of minerals. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.

3. MINIMUM BOP REQUIREMENTS: (Refer to attached schematics)

- a) The BOPE shall be closed whenever the well is unattended.
- b) The BOPE shall be pressure tested when initially installed, whenever any seal subject to pressure testing is broken, after repairs, or every 30 days.
- c) Kerr-McGee shall notify the Moab BLM office 24 hours prior to the BOPE test.
- d) All BOPE shall meet or exceed the requirements of a 3M system as set forth in Onshore Order No. 2.
- e) An accumulator unit will be used that has sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer and retain 200 psi above precharge on the closing manifold without the use of the closing pumps. The accumulator unit will be located at the master accumulator and on the rig floor. Hydraulic controls will be located at the master accumulator and on the rig floor. Manual controls (hand wheels) will also be installed on the blind and pipe rams.
- f) Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or 70 percent of internal yield pressure of casing if BOP stack is not isolated from casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer.
- g) Annular type preventers shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.
- h) Accessories to BOP's include upper and lower Kelly cock valves with handles and floor safety valve, drill string BOP.

4. SUPPLEMENTARY INFORMATION:

As this is a normally pressured coalbed methane play, no gas is anticipated to surface during drilling operations.

The primary objective of this project is to drill, complete and inject produced salt water into the Wingate formation. No gas formations are expected after intermediate casing point, thus surface casing depth is designed to cover 10% of Intermediate hole depth.

Surface casing will be preset with a water-well drilling rig (3D), intermediate casing will be set with a turnkey operator (Pence) and the long-string section will be drilled by a dayrate contractor. Kerr-McGee will have a company hand on location for all operations. This is done to minimize overall rig time on location.

Stimulation of the perforated zone will be done by hydraulic fracturing. Fresh water, gelled water, and/or foam fracturing techniques will be used.

5. CASING PROGRAM:

Hole Size	Casing Size	Weight	Grade	Joint	Depth Set	New/Used	Collapse	Burst	Tension
17-1/2"	13-3/8"	54.5	J55	ST&C	240	New	1,130	2,730	595,000
12-1/4"	9-5/8"	32.3	H-40	ST&C	2350	New	1,370	2,270	254,000
8-3/4"	7"	23	J-55	LT&C	5193	New	3,270	4,360	313,000

Note: No conductor will be set as Surface Casing will be Set with Water Well Drilling Rig.

Surface Casing: Set to 10% of Intermediate Casing Depth

- a) $Burst = 0.052 * MW * TVD$ (intermediate shoe)
 $= 0.052 * 8.5 \text{ ppg} * 2350'$
 $= 1039 \text{ psi}$
 Safety Factor = Rating/Burst
 $= 2730/1018$
 $= 2.6$
- b) $Collapse = [0.052 * MW * TVD(\text{shoe})]$
 $= [0.052 * 9.0 \text{ ppg} * 240']$
 $= 112 \text{ psi}$
 Safety Factor = Rating/Collapse
 $= 1130/112$
 $= 10$
- c) $Tension = Weight * TVD * [1 - (MW/65.5\text{ppg})] + \text{Margin of Overpull}$
 $= 54.5 * 240' * [1 - 8.33/65.5] + 50,000$
 $= 61417 \text{ lbf}$
 Safety Factor = Rating/Tension
 $= 595,000/61,283$
 $= 9.7$

Surface casing shall have centralizers on all joints of the casing, starting with the shoe joint.

Intermediate Casing: Set 100' into the Buckhorn Formation

- a) $Burst = 0.052 * 8.5 \text{ ppg} * 2350'$
 $= 1039 \text{ psi}$
 Safety Factor = Rating/Burst
 $= 2270/1039$
 $= 2.2$
- b) $Collapse = [0.052 * 9 \text{ ppg} * 2350']$
 $= 1100 \text{ psi}$
 Safety Factor = Rating/Collapse
 $= 1370/1100$
 $= 1.2$

$$\begin{aligned}
\text{c) Tension} &= \text{Weight} * \text{TVD} * [1 - (\text{MW}/65.5 \text{ ppg})] + \text{Margin of Overpull} \\
&= 32.3 * 2350' * [1 - 8.33/65.5] + 50,000 \\
&= 116252 \text{ lbf} \\
\text{Safety Factor} &= \text{Rating}/\text{Tension} \\
&= 254,000/116,252 \\
&= 2.2
\end{aligned}$$

Production Casing

$$\begin{aligned}
\text{a) Burst} &= 0.052 * 9.0 \text{ ppg} * 5193' \quad (\text{Evacuated Casing}) \\
&= 2430 \text{ psi} \\
\text{Burst} &= (0.61 \text{ psi/ft} - 0.44 \text{ psi/ft}) * \text{TVD} \quad (\text{Fracture Pressure}) \\
&= 883 \text{ psi} \\
\text{Safety Factor} &= \text{Rating}/\text{Burst} \\
&= 4360/2430 \\
&= 2 \\
&= 4360/883 \\
&= 5
\end{aligned}$$

$$\begin{aligned}
\text{b) Collapse} &= [0.052 * 9.0 \text{ ppg} * 5193'] \\
&= 2430 \text{ psi} \\
\text{Safety Factor} &= \text{Rating}/\text{Collapse} \\
&= 3270/2430 \\
&= 1.35
\end{aligned}$$

$$\begin{aligned}
\text{c) Tension} &= \text{Weight} * \text{TVD} * [1 - (\text{MW}/65.5 \text{ ppg})] + \text{Margin of Overpull} \\
&= 23.0 * 5193' * [1 - 9.0/65.5] + 150,000 \\
&= 253028 \\
\text{Safety Factor} &= \text{Rating}/\text{Tension} \\
&= 313,000/253,028 \\
&= 1.24
\end{aligned}$$

6. MUD PROGRAM:

Surface:

Kerr-McGee intends to drill the surface casing through to 10% of intermediate casing total depth using fresh water and gel sweeps. No gas or water zones will be encountered and as such BOPE will not be used.

Intermediate and Production Holes:

Drilling of the intermediate and production holes to casing setting depth will be done using an underbalanced fluid as the circulating medium. While drilling in an underbalanced state, Kerr-McGee and/or its turnkey contractor will maintain sufficient barite and lost-circulation materials on location to kill water flows and contain gas production as deemed necessary. These materials will not be pre-mixed, but the ability to mix and pump them will be present on location.

Since gas flow is not anticipated to surface, Kerr-McGee requests a variance from Onshore Order No. 2 with regards to the 100 foot blooie line and the automatic ignition system. The length of the blooie line will be sufficient to reach the middle of the reserve pit. In the event that gas does flow to surface, a continuous ignition system will be installed and utilized on all remaining and subsequent wells drilled. Air flow line is 8" Schedule 80 pipe that runs 90 degrees from the well bore to the reserve pit. The last 7' of flow line is 14" pipe with three, 45 degree, 8" Schedule 80 pipes to disperse cuttings to reserve pit. Dust will be suppressed by injecting water into the blooie line. Whip-checks will also be utilized on all pressurized compressors, blooie lines and hoses to maintain physical control. All Engines will have spark arrestors on the exhaust as well.

The open hole will be loaded with water and a micro-emulsion agent prior to tripping out of the hole to run wireline logs and case.

If it is deemed necessary to mud-up. A mud test shall be performed at least once every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

7. CEMENTING PROGRAM:

13-3/8" Surface Casing:

Tail: Class "A" Cement with 0.25#/sk LCM and 2% CaCl₂, mixed at 15.6 ppg, 1.19 cuft/sk yield with 100% excess by volume.

The surface casing shall be cemented back to surface. In the event cement does not circulate to surface or fall back of the cement column occurs, remedial cementing shall be done to cement the casing back to surface.

9-5/8" Intermediate Casing

Tail: Class "A" Cement with 0.25#/sk LCM and 2% CaCl₂, mixed at 12.5 ppg, 2.03 cuft/sk yield with 10% excess. Volumes calculated to circulate cement from TD to 700' above the Ferron formation with 10% excess by caliper log.

Centralizers will used used to maintain a minimum of 70% Casing-Sidewall Standoff

7" Production Casing:

Lead: Control Set-A Cement with 2% CaCl₂, 2% SMS, 0.3% CFL-3 and .25/sk cello-flake, mixed at 11ppg, 2.57 cuft/sk yield.

Tail: Control Set-A Cement with 2% CaCl₂, 2% SMS, 0.3% CFL-3 and .25/sk cello-flake, mixed at 14.3ppg, 1.82 cuft/sk yield.

Volumes calculated to circulate cement from TD to surface.

8. LOGGING PROGRAM

Well completion and stimulation procedures will be determined following the evaluation of the drilling results and open hole logs. A "Sundry Notice" will be submitted for approval outlining the planned completion procedure at that time.

Cores: None

DSTs: None

Logs:	From	To
GR	TD	Surface
Resistivity	TD	Surface Casing
Neutron-Density-Cal	TD	Surface Casing
High Res Pass	TBD	TBD
FMI as deemed necessary	TD	Surface Casing

9. PRESSURE DATA, POTENTIAL HAZARDS

Bottom hole is anticipated to be normally pressured.
There is no history of hydrogen sulfide gas in the area and none is anticipated.

10. ANTICIPATED STARTING DATES AND NOTIFICATION OF OPERATIONS:

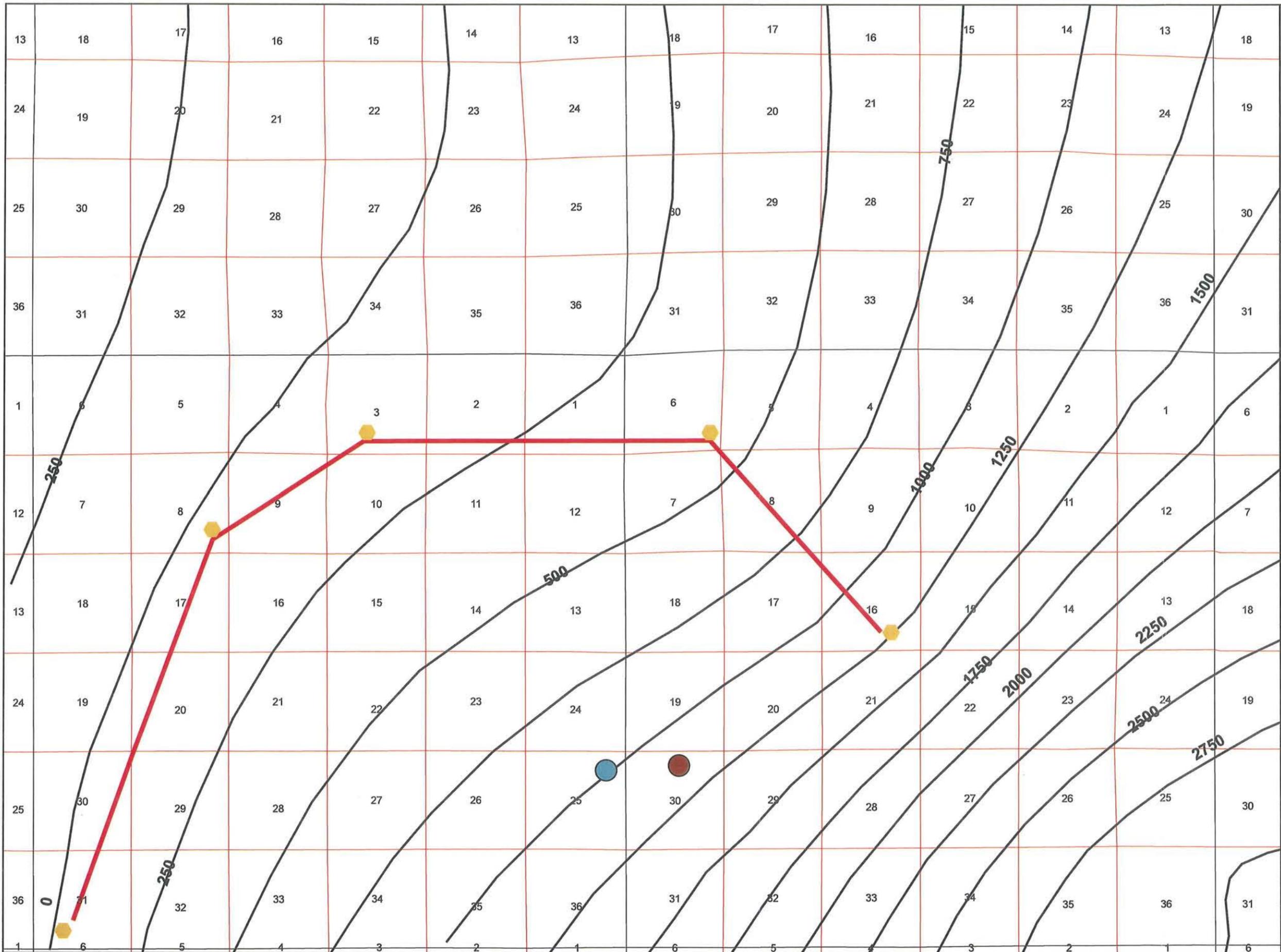
a) Anticipated Days:

Drilling Days: Approximately 10 Days/Well
Completion Days: Approximately 2 Days/Well
Testing Days: Approximately 7-14 Days/Well

b) Notification of Operations:

Bureau of Land Management
Moab Field Office
82 East Dogwood
Moab, Utah 84532
(435) 259-2100

ATTACHMENT NO. 4
NAVAJO STRUCTURE MAP



Legend

- Navajo Penetrations
- 41-25 SWD
- 31-30 SWD

Project Location



0 0.25 0.5 1 1.5 2 Miles

**Kerr-McGee Oil & Gas
Onshore LP**

**Structure Map:
Top Navajo Sandstone
Wellington Federal
31-30 SWD & 41-25 SWD
Ferron Coal Play
Carbon County, Utah**

Buys & Associates, Inc.

ATTACHMENT NO. 5

CROSS-SECTIONS OF THE INJECTION FORMATION

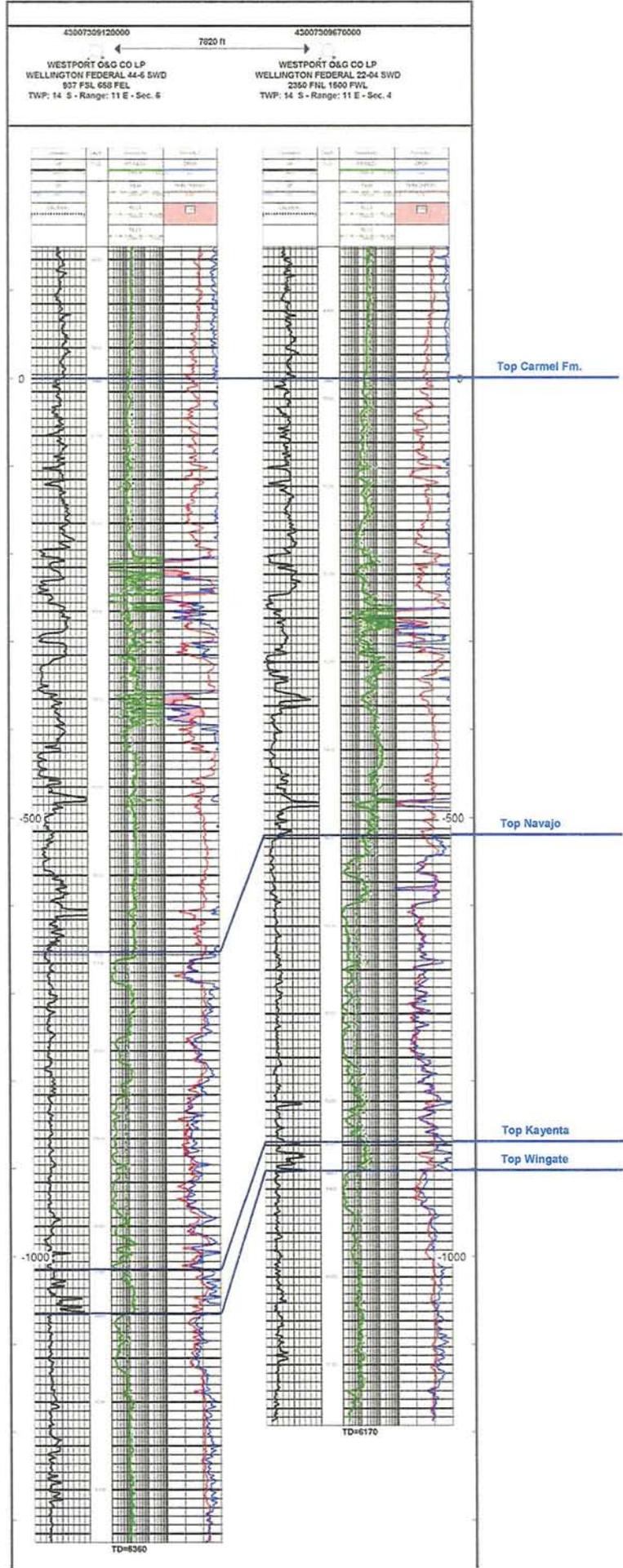
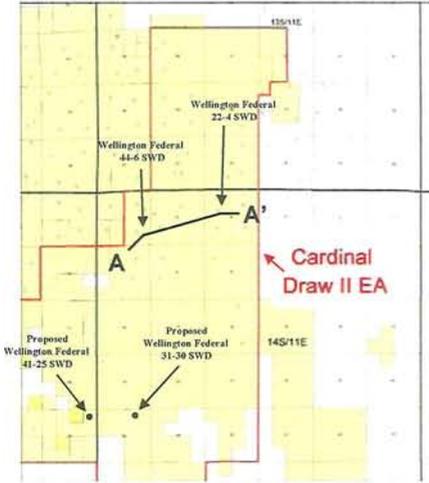
Stratigraphic Cross Section Flattened on Top Carmel

Cardinal Draw, Carbon County, Utah

A

A'

Location Map



ATTACHMENT NO. 6

WATER ANALYSIS

Water Analysis Report

11-Oct-05

Date Sampled : 01-Oct-05
 Date Received : 03-Oct-05
 Date Reported : 07-Oct-05

Westport Oil & Gas

Field : Helper
 Lease : Wellington Federal

UT

Location : Well No. 22-04

Attention :
 cc1 :

Sample Point : wellhead

cc2 :
 cc3 :

Salesman : Scott Harbison

Analyst : Karen Hawkins Allen

Comments : Wingate formation. ACID GASES RAN IN LAB.

CATIONS

Calcium :	2,360 mg/l
Magnesium :	2,503 mg/l
Barium :	mg/l
Strontium :	mg/l
Iron :	263.0 mg/l
Manganese :	mg/l
Sodium :	23823 mg/l
pH (field) :	6.38
Temperature :	85 degrees F
Ionic Strength :	1.36
Resistivity :	ohm/meters
Ammonia :	ppm

ANIONS

Chloride :	44,540 mg/l
Carbonate :	0 mg/l
Bicarbonate :	2,396 mg/l
Sulfate :	3,088 mg/l
Specific Gravity :	1.055 grams/ml
Total Dissolved Solids :	78,973 ppm
CO2 in Water :	300 mg/l
CO2 in Gas :	0.03 mole %
H2S in Water :	mg/l
Dissolved Oxygen :	ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	0.43	Calcite PTB :	435.3
Calcite (CaCO3) SI @ 100 F :	0.58	Calcite PTB @ 100 F :	548.2
Calcite (CaCO3) SI @ 120 F :	0.79	Calcite PTB @ 120 F :	693.3
Calcite (CaCO3) SI @ 140 F :	1.01	Calcite PTB @ 140 F :	822.2
Calcite (CaCO3) SI @ 160 F :	1.24	Calcite PTB @ 160 F :	931.1
Calcite (CaCO3) SI @ 180 F :	1.47	Calcite PTB @ 180 F :	1019.7
Calcite (CaCO3) SI @ 200 F :	1.71	Calcite PTB @ 200 F :	1096.3
Gypsum (CaSO4) SI :	-0.20	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Water Analysis Report

11-Oct-05

Date Sampled : 01-Oct-05

Date Received : 03-Oct-05

Date Reported : 07-Oct-05

Westport Oil & Gas

Field : Helper

Lease : Wellington Federal

Location : Well No. 44-06 SWD

Sample Point : wellhead

Salesman : Scott Harbison

Analyst : Karen Hawkins Allen

UT

Attention :

cc1 :

cc2 :

cc3 :

Comments : ACID GASES RAN IN LAB.

C A T I O N S

Calcium : 312 mg/l
Magnesium : 34 mg/l

Barium : mg/l
Strontium : mg/l
Iron : 2.0 mg/l

Manganese : mg/l
Sodium : 9170 mg/l

pH (field) : 7.42

Temperature : 85 degrees F

Ionic Strength : 0.42

Resistivity : ohm/meters

Ammonia : ppm

A N I O N S

Chloride : 12,720 mg/l

Carbonate : 0 mg/l

Bicarbonate : 3,428 mg/l

Sulfate : 108 mg/l mg/l mg.

Specific Gravity : 1.010 grams/ml

Total Dissolved Solids : 25,774 ppm

CO2 in Water : 300 mg/l

CO2 in Gas : 0.03 mole %

H2S in Water : mg/l

Dissolved Oxygen : ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	0.34	Calcite PTB :	130.0
Calcite (CaCO3) SI @ 100 F :	0.50	Calcite PTB @ 100 F :	170.5
Calcite (CaCO3) SI @ 120 F :	0.71	Calcite PTB @ 120 F :	206.7
Calcite (CaCO3) SI @ 140 F :	0.93	Calcite PTB @ 140 F :	231.3
Calcite (CaCO3) SI @ 160 F :	1.15	Calcite PTB @ 160 F :	247.8
Calcite (CaCO3) SI @ 180 F :	1.38	Calcite PTB @ 180 F :	257.9
Calcite (CaCO3) SI @ 200 F :	1.62	Calcite PTB @ 200 F :	264.0
Gypsum (CaSO4) SI :	-2.14	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Confidential

Champion Technologies, Inc.

Vernal District Technical Services

ATTACHMENT NO. 7

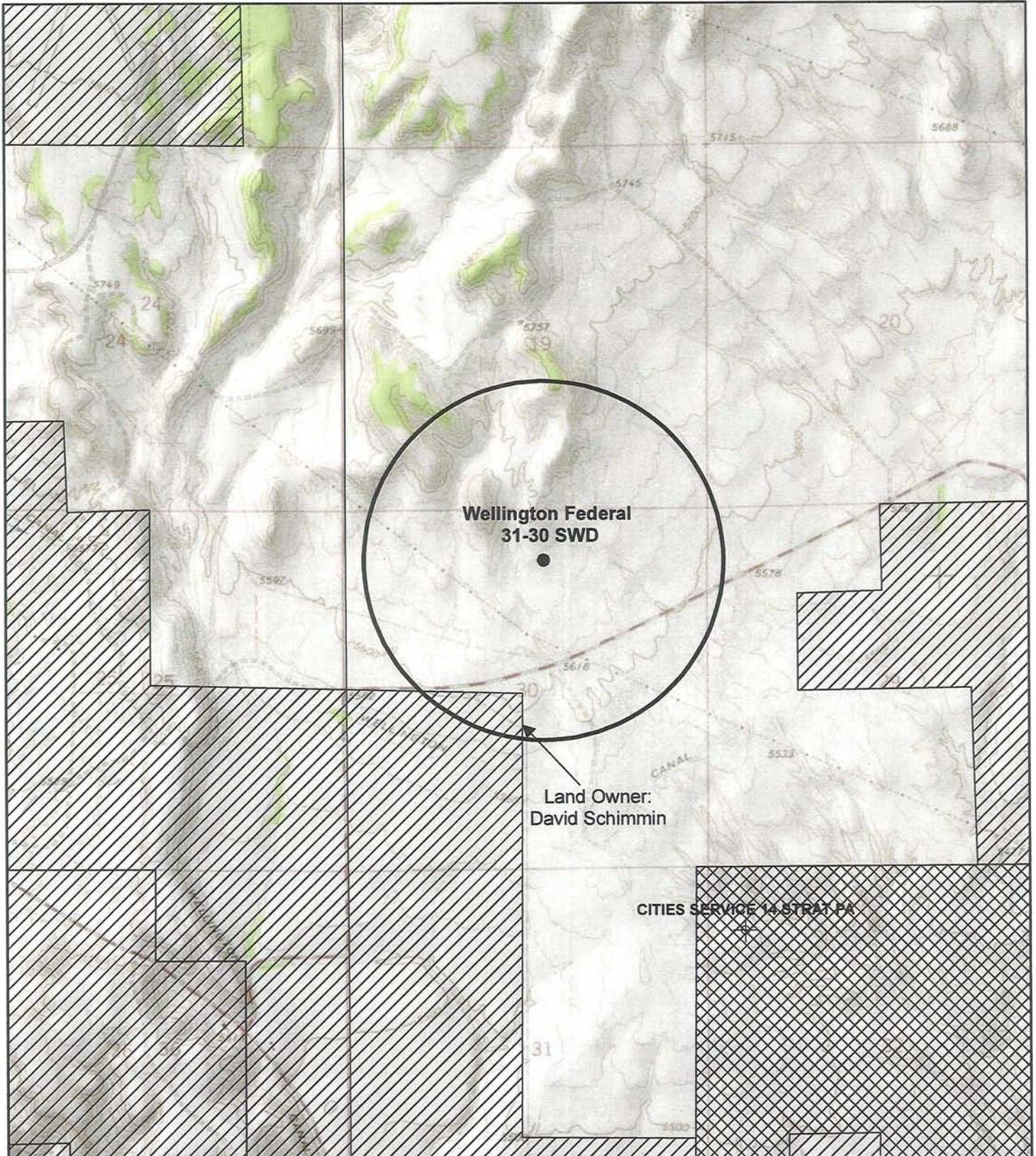
COMPLETION DATA FOR ALL WELLS IN THE AOR

ATTACHMENT NO. 8
CBL FOR THE UIC WELL

ATTACHMENT NO. 9
OPEN HOLE LOG FOR THE UIC WELL

ATTACHMENT NO. 10

LIST OF OWNERS AND AFFIDAVIT NOTIFICATION



**Wellington Federal
31-30 SWD**

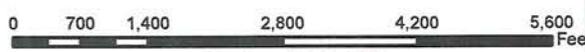
Land Owner:
David Schimmin

CITIES SERVICE 14 STRAIT PA

Project Location

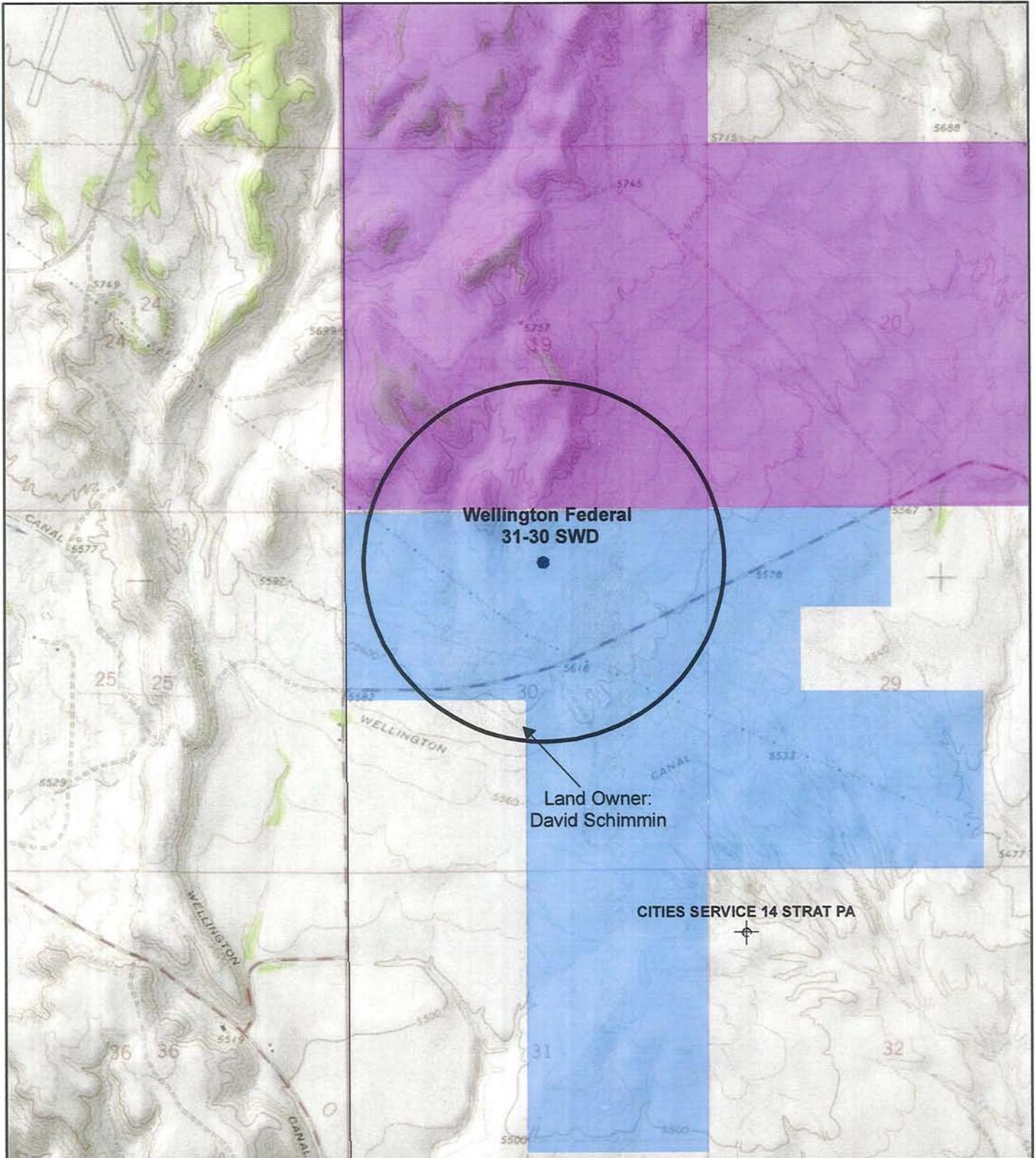


- BLM
- PRIVATE
- STATE
- Proposed Well
- Half Mile Buffer
- P & A



Buys & Associates, Inc.

Kerr-McGee Oil & Gas Onshore LP
 Wellington Federal 31-30 SWD
 Land Ownership
 Sec. 30, T14S, R11E
 Carbon County, Utah



Project Location



- Kerr-McGee Lease UTU-080563
- Kerr-McGee Lease UTU-080565
- Proposed Well
- Half Mile Buffer
- + P & A



Scale = 1:24,000

Buys & Associates, Inc.

Kerr-McGee Oil & Gas Onshore LP
 Wellington Federal 31-30 SWD
 Lease Holds
 Sec. 30, T14S, R11E
 Carbon County, Utah

Wellington Federal 31-30 Surface, Mineral and Lease Owners

Surface Ownership:

Township 14 South – Range 11 East

Section 19:	All	BLM PO Box 45155 Salt Lake City, UT 84145
Section 29:	NW2, NW2	BLM PO Box 45155 Salt Lake City, UT 84145
Section 30:	SW/4	STATE
Section 30:	Lots 3 & 4, E ½ of SW Qtr	David Schimmin PO Box 785 Price, UT 84501

Working Interest Ownership:

Township 14 South – Range 11 East

Section 18:	All	Kerr-McGee O&G 1999 Broadway, Suite 3700 Denver, CO 80202
Section 19:	All	Kerr-McGee O&G 1999 Broadway, Suite 3700 Denver, CO 80202
Section 20:	All	Kerr-McGee O&G 1999 Broadway, Suite 3700 Denver, CO 80202
Section 29:	N2NW, SWNW, SW, W2SE	Kerr-McGee O&G 1999 Broadway, Suite 3700 Denver, CO 80202
Section 30	E2, E2NW	Kerr-McGee O&G 1999 Broadway, Suite 3700 Denver, CO 80202
Section 30:	Lots 1 & 2	Kerr-McGee O&G 1999 Broadway, Suite 3700 Denver, CO 80202

Wellington Federal 31-30
Surface, Mineral and Lease Owners

Working Interest Ownership (Continued):

Township 14 South – Range 11 East (Continued)

Section 31:	NE, N2SE	Kerr-McGee O&G 1999 Broadway, Suite 3700 Denver, CO 80202
Other:		Conoco Phillips Company PO Box 2197 Houston, TX 77252-2197
		Robert L. Bayless, Producer, LLC 621 17 th Street, Suite 1640 Denver, CO 80293

Working Interest Ownership:

Township 14 South – Range 11 East

NONE

ATTACHMENT NO. 11

WELL BORE DIAGRAMS FOR THE UIC WELL

ATTACHMENT NO. 12

P&A PROCEDURE

PLUG AND ABANDONMENT PROCEDURE

1. Obtain authorization from regulatory agencies for P&A procedures.
2. Rig up pulling unit. Install BOP. Release packers. Trip out of hole with production tubing string.
3. RIH Set CIBP @ 4490'
4. Trip in hole with 2-7/8" tubing. Establish pump rate, pump and squeeze with 30 sxs Class G cement above CIBP. This will be a 200' cement plug.
5. Raise the tubing to 2300' and pump 30 sx of Class G cement for a 200' cement plug.
6. Raise the tubing to 240' and pump 15 sx of Class G cement for a 100' cement plug.
7. Set 50' cement plug (8 sx of G cement) from 50' to surface.
8. Cut off wellhead and install plate and identification P&A post marker. Weld to casing.
9. File reports with the agencies and reclaim surface location.

ATTACHMENT NO. 13

MIT PROCEDURE

Mechanical Integrity Test Procedure

Integrity testing can be accomplished by pressuring up the annulus between the casing and the 2 3/8 inch tubing. The pressure and duration of the test will be as required by DOGM.

Test Procedure Details:

1. Notify the Agency 48 hours prior to starting test.
2. MIRU Service Unit
3. Bleed off pressure, if any, on 7" production casing. .
4. ND wellhead and NU BOP.
5. Fill the tubing/casing annulus with a non-corrosive liquid 24 hours prior to the test.
6. Pressure up casing; tubing annulus to 1500 psi for 14 minutes (or per DOGM instructions).
7. Record the testing pressures on a chart recorder.
8. If pressure holds, ND BOP and NU wellhead.
9. Return to injection.

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

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL		5. MINERAL LEASE NO: UTU080565	6. SURFACE: Federal
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER <u>SWD</u> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: N/A	
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP		9. WELL NAME and NUMBER: Wellington Federal 31-30 SWD	
3. ADDRESS OF OPERATOR: 1099 18th Street, Denver, CO 80202		PHONE NUMBER: 720-929-6000	10. FIELD AND POOL, OR WILDCAT: Undesignated / Navajo-Wingate
4. LOCATION OF WELL (FOOTAGES) <u>523299 X 4381429 Y 39.584145</u>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE Sec. 30 T14S-R11E S.L.B.&M.	
AT SURFACE: 731' FNL, 2332' FEL Lat: 39.584151 Long: -110.729400			
AT PROPOSED PRODUCING ZONE: Same as above		-110.728698	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approximately 5.6 miles from Price, Utah		12. COUNTY: Carbon	13. STATE UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 731'	16. NUMBER OF ACRES IN LEASE: 1,081.110 ac.	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 160 ac.	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) Wellington Fed 11-30 +/- 1200'	19. PROPOSED DEPTH: 5173'	20. BOND DESCRIPTION: Utah Statewide Bond: RLB005238	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5645' Ungraded Ground Level	22. APPROXIMATE DATE WORK WILL START: Upon APD Approval	23. ESTIMATED DURATION: 10 days drilling plus 2 days completion	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
17-1/2"	13-3/8", 54.5#, J-55, ST&C	240'	280 sks of Class "A" cement w/ 0.25#/sk LCM & 2% CaCl ₂ , mixed @ 15.6 ppg, 1.19 cuft/sk yield w/ 100% excess by volume, enough volume to raise cmt to surface.
12-1/4"	9-5/8", 32.3#, H-40, ST&C	2350'	725 sks of Class "A" cement w/ 0.25#/sk LCM & 2%CaCl ₂ , mixed at 12.5 ppg, 2.03 cuft/sk yield w/ 10% excess.
8-3/4"	7", 23#, J-55, LT&C	5173'	494 Control Set-A cmt w/ 2% CaCl ₂ , 2% SMS, 0.3% CFL & 0.25/sk cello-flake, mixed @ 11ppg, 2.57 cuft/sk yield. Tail: same as lead except; mixed @ 14.3ppg, 1.82 cuft/sk yield.

ATTACHMENTS

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

- | | |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Debby J. Black Debby.Black@anadarko.com TITLE Staff Regulatory Analyst (Direct 720-929-6472)
SIGNATURE *Debby J. Black* DATE March 26, 2008

(This space for State use only)

Approved by the
Utah Division of
Oil, Gas and Mining

RECEIVED
MAR 28 2008

API NUMBER ASSIGNED: 43007-31375

APPROVAL:

Date: 04-24-08

By: *[Signature]*
Wellington Federal 31-30 SWD UDOGM APD 3-19-08 Wellington Federal 31-30 SWD

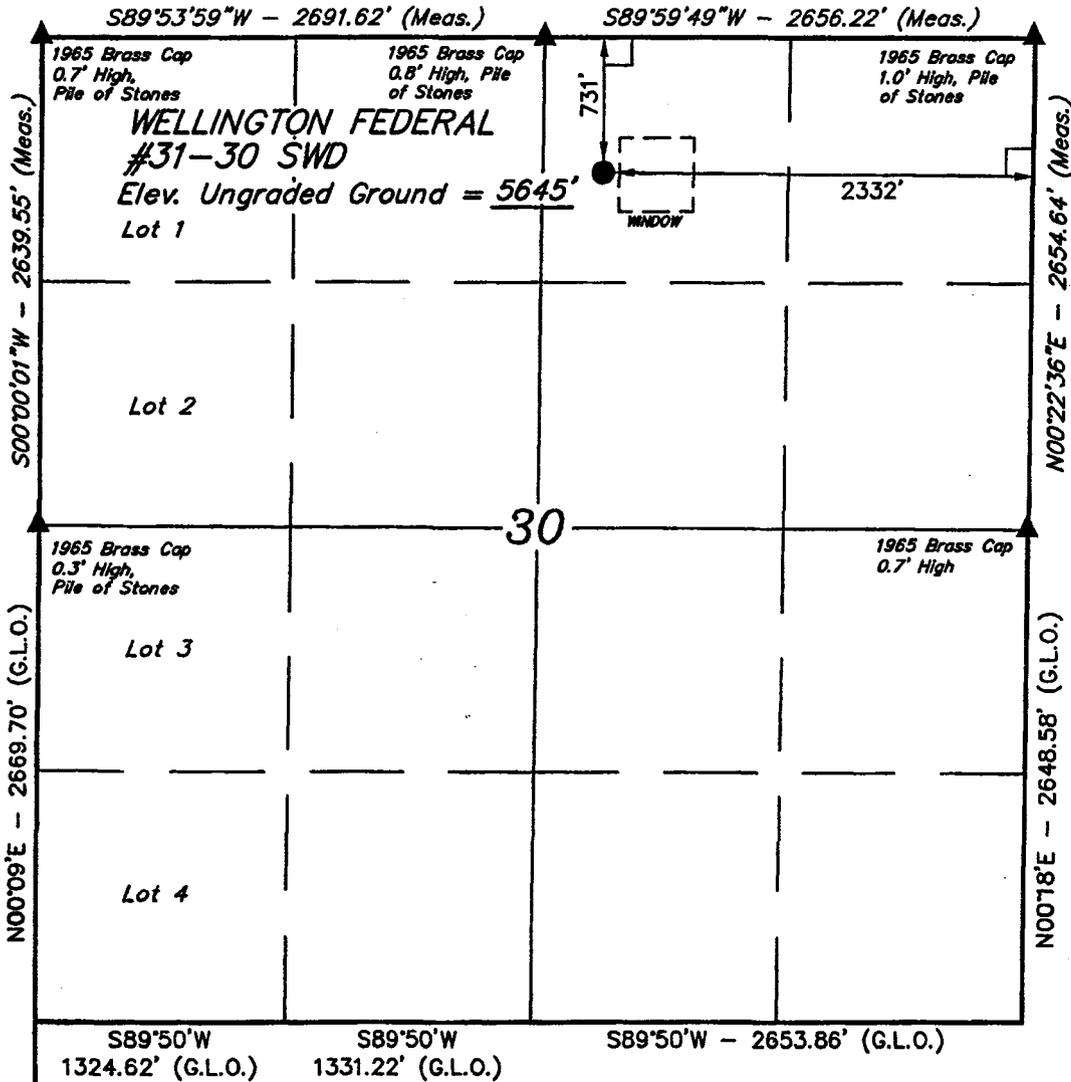
(11/2001)

**Federal Approval of this
Action is Necessary**

DIV. OF OIL, GAS & MINING

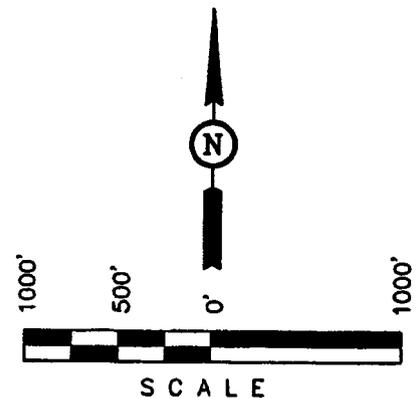
T14S, R11E, S.L.B.&M.

Kerr-McGee Oil & Gas Onshore LP
 Well location, WELLINGTON FEDERAL #31-30 SWD,
 located as shown in the NW 1/4 NE 1/4 of
 Section 30, T14S, R11E, S.L.B.&M., Carbon County,
 Utah.



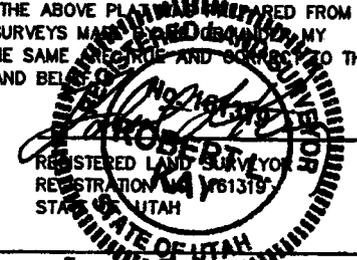
BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE NORTHWEST CORNER OF SECTION 7, T14S, R11E, S.L.B.&M. TAKEN FROM THE DEADMAN CANYON, QUADRANGLE, UTAH, CARBON COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5997 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.



BASIS OF BEARINGS

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

(NAD 83)
 LATITUDE = 39°35'02.94" (39.584151)
 LONGITUDE = 110°43'45.84" (110.729400)
 (NAD 27)
 LATITUDE = 39°35'03.07" (39.584185)
 LONGITUDE = 110°43'43.27" (110.728687)

R
10
E

R
11
E

LEGEND:

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

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 01-04-08	DATE DRAWN: 01-07-08
PARTY B.B. C.P. M.D.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr-McGee Oil & Gas Onshore LP	

2008 Cardinal Draw Plan of Development
Carbon County, Utah
OPERATOR: KERR-McGEE OIL & GAS ONSHORE, L. P.

Federal Lease: UTU080565

Wellington Federal 31-30 SWD
NWNE Section 30: Township 14 South - Range 11 East
Carbon County, Utah

DRILLING PROGNOSIS FOR SALT WATER DEPOSAL WELLS

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

<u>Formation</u>	<u>Shallowest Depth</u>		<u>Deepest Depth</u>	
	<u>Measured</u>	<u>Sub Sea</u>	<u>Measured</u>	<u>Sub Sea</u>
Ferron	674	5600	1354	6300
B Ferron	1060	4540	1080	4540
Tunnuck Shale	1143	4457	1163	4457
Wingate	4873	727	4893	727
TD	5173		5193	

2. ESTIMATED DEPTH OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS

Primary Objective: Wingate Water Injection Zone

Several coal seams may be tested for gas producing formations to total depth. All shallow water zones will be protected with casing and cement. Cement will be circulated to 700' above the Ferron unless water zones are encountered.

The casing and cementing programs shall be conducted as approved to protect and/or isolate all usable water zones and any prospectively valuable deposits of minerals. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.

3. MINIMUM BOP REQUIREMENTS: (Refer to attached schematics)

- a) The BOPE shall be closed whenever the well is unattended.
- b) The BOPE shall be pressure tested when initially installed, whenever any seal subject to pressure testing is broken, after repairs, or every 30 days.
- c) Kerr-McGee shall notify the Moab and Price BLM offices 24 hours prior to the BOPE test.
- d) All BOPE shall meet or exceed the requirements of a 3M system as set forth in Onshore Order No. 2.
- e) An accumulator unit will be used that has sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer and retain 200 psi above precharge on the closing manifold without the use of the closing pumps. The accumulator unit will be located at the master accumulator and on the rig floor. Hydraulic controls will be located at the master accumulator and on the rig floor. Manual controls (hand wheels) will also be installed on the blind and pipe rams.
- f) Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or 70 percent of internal yield pressure of casing if BOP stack is not isolated from casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer.
- g) Annular type preventers shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.
- h) Accessories to BOP's include upper and lower Kelly cock valves with handles and floor safety valve, drill string BOP.

4. SUPPLEMENTARY INFORMATION:

As this is a normally pressured coalbed methane play, no gas is anticipated to surface during drilling operations.

The primary objective of this project is to drill, complete and inject produced salt water into the Wingate formation. No gas formations are expected after intermediate casing point, thus surface casing depth is designed to cover 10% of Intermediate hole depth.

Surface casing will be preset with a water-well drilling rig (3D), intermediate casing will be set with a turnkey operator (Pence) and the long-string section will be drilled by a dayrate contractor. Kerr-McGee will have a company hand on location for all operations. This is done to minimize overall rig time on location.

Stimulation of the perforated zone will be done by hydraulic fracturing. Fresh water, gelled water, and/or foam fracturing techniques will be used.

5. CASING PROGRAM:

Hole Size	Casing Size	Weight	Grade	Joint	Depth Set	New/Used	Collapse	Burst	Tension
17-1/2"	13-3/8"	54.5	J55	ST&C	240	New	1,130	2,730	595,000
12-1/4"	9-5/8"	32.3	H-40	ST&C	2350	New	1,370	2,270	254,000
8-3/4"	7"	23	J-55	LT&C	5193	New	3,270	4,360	313,000

Note: No conductor will be set as Surface Casing will be Set with Water Well Drilling Rig.

Surface Casing: Set to 10% of Intermediate Casing Depth

- a) $Burst = 0.052 * MW * TVD$ (intermediate shoe)
 $= 0.052 * 8.5 \text{ ppg} * 2350'$
 $= 1039 \text{ psi}$
 Safety Factor = Rating/Burst
 $= 2730/1018$
 $= 2.6$
- b) $Collapse = [0.052 * MW * TVD(\text{shoe})]$
 $= [0.052 * 9.0 \text{ ppg} * 240']$
 $= 112 \text{ psi}$
 Safety Factor = Rating/Collapse
 $= 1130/112$
 $= 10$
- c) $Tension = Weight * TVD * [1 - (MW/65.5 \text{ ppg})] + \text{Margin of Overpull}$
 $= 54.5 * 240' * [1 - 8.33/65.5] + 50,000$
 $= 61417 \text{ lbf}$
 Safety Factor = Rating/Tension
 $= 595,000/61,283$
 $= 9.7$

Surface casing shall have centralizers on all joints of the casing, starting with the shoe joint.

Intermediate Casing: Set 100' into the Buckhorn Formation

- a) $Burst = 0.052 * 8.5 \text{ ppg} * 2350'$
 $= 1039 \text{ psi}$
 Safety Factor = Rating/Burst
 $= 2270/1039$
 $= 2.2$
- b) $Collapse = [0.052 * 9 \text{ ppg} * 2350']$
 $= 1100 \text{ psi}$
 Safety Factor = Rating/Collapse
 $= 1370/1100$
 $= 1.2$
- c) $Tension = Weight * TVD * [1 - (MW/65.5 \text{ ppg})] + \text{Margin of Overpull}$
 $= 32.3 * 2350' * [1 - 8.33/65.5] + 50,000$
 $= 116252 \text{ lbf}$
 Safety Factor = Rating/Tension
 $= 254,000/116,252$
 $= 2.2$

Production Casing

- a) $\text{Burst} = 0.052 * 9.0 \text{ ppg} * 5193'$ (Evacuated Casing)
= 2430 psi
 $\text{Burst} = (0.61 \text{ psi/ft} - 0.44 \text{ psi/ft}) * \text{TVD}$ (Fracture Pressure)
= 883 psi
 $\text{Safety Factor} = \text{Rating/Burst}$
= 4360/2430
= 2
= 4360/883
= 5
- b) $\text{Collapse} = [0.052 * 9.0 \text{ ppg} * 5193']$
= 2430 psi
 $\text{Safety Factor} = \text{Rating/Collapse}$
= 3270/2430
= 1.35
- c) $\text{Tension} = \text{Weight} * \text{TVD}' * [1 - (\text{MW}/65.5 \text{ ppg})] + \text{Margin of Overpull}$
= 23.0 * 5193' * [1 - 9.0/65.5] + 150,000
= 253028
 $\text{Safety Factor} = \text{Rating/Tension}$
= 313,000/253,028
= 1.24

6. MUD PROGRAM:

Surface:

Kerr-McGee intends to drill the surface casing through to 10% of intermediate casing total depth using fresh water and get sweeps. No gas or water zones will be encountered and as such BOPE will not be used.

Intermediate and Production Holes:

Drilling of the intermediate and production holes to casing setting depth will be done using an underbalanced fluid as the circulating medium. While drilling in an underbalanced state, Kerr-McGee and/or its turnkey contractor will maintain sufficient barite and lost-circulation materials on location to kill water flows and contain gas production as deemed necessary. These materials will not be pre-mixed, but the ability to mix and pump them will be present on location.

Since gas flow is not anticipated to surface, Kerr-McGee requests a variance from Onshore Order No. 2 with regards to the 100 foot blooie line and the automatic ignition system. The length of the blooie line will be sufficient to reach the middle of the reserve pit. In the event that gas does flow to surface, a continuous ignition system will be installed and utilized on all remaining and subsequent wells drilled. Air flow line is 8" Schedule 80 pipe that runs 90 degrees from the well bore to the reserve pit. The last 7' of flow line is 14" pipe with three, 45 degree, 8" Schedule 80 pipes to disperse cuttings to reserve pit. Dust will be suppressed by injecting water into the blooie line. Whip-checks will also be utilized on all pressurized compressors, blooie lines and hoses to maintain physical control. All Engines will have spark arrestors on the exhaust as well.

The open hole will be loaded with water and a micro-emulsion agent prior to tripping out of the hole to run wireline logs and case.

If it is deemed necessary to mud-up. A mud test shall be performed at least once every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

7. CEMENTING PROGRAM:

13-3/8" Surface Casing:

Tail: Class "A" Cement with 0.25#/sk LCM and 2% CaCl₂, mixed at 15.6 ppg, 1.19 cuft/sk yield with 100% excess by volume.

The surface casing shall be cemented back to surface. In the event cement does not circulate to surface or fall back of the cement column occurs, remedial cementing shall be done to cement the casing back to surface.

9-5/8" Intermediate Casing

Tail: Class "A" Cement with 0.25#/sk LCM and 2% CaCl₂, mixed at 12.5 ppg, 2.03 cuft/sk yield with 10% excess. Volumes calculated to circulate cement from TD to 700' above the Ferron formation with 10% excess by caliper log.

Centralizers will used used to maintain a minimum of 70% Casing-Sidewall Standoff

7" Production Casing:

Lead: Control Set-A Cement with 2% CaCl₂, 2% SMS, 0.3% CFL-3 and .25/sk cello-flake, mixed at 11 ppg, 2.57 cuft/sk yield.

Tail: Control Set-A Cement with 2% CaCl₂, 2% SMS, 0.3% CFL-3 and .25/sk cello-flake, mixed at 14.3 ppg, 1.82 cuft/sk yield.

Volumes calculated to circulate cement from TD to surface.

8. LOGGING PROGRAM

Well completion and stimulation procedures will be determined following the evaluation of the drilling results and open hole logs. A "Sundry Notice" will be submitted for approval outlining the planned completion procedure at that time.

Cores: None

DST's: None

Logs:	From	To
GR	TD	Surface
Resistivity	TD	Surface Casing
Neutron-Density-Cal	TD	Surface Casing
High Res Pass	TBD	TBD
FMI as deemed necessary	TD	Surface Casing

9. PRESSURE DATA, POTENTIAL HAZARDS

Bottom hole is anticipated to be normally pressured.
There is no history of hydrogen sulfide gas in the area and none is anticipated.

10. ANTICIPATED STARTING DATES AND NOTIFICATION OF OPERATIONS:

a) Anticipated Days:

Drilling Days: Approximately 10 Days/Well
Completion Days: Approximately 2 Days/Well
Testing Days: Approximately 7-14 Days/Well

b) Notification of Operations:

Surface	Sub-Surface
Bureau of Land Management	Bureau of Land Management
Price Field Office	Moab Field Office
125 South 600 West	82 East Dogwood
Price, Utah 84501	Moab, Utah 84532
(435) 636-3600	(435) 259-2100
Attn: Nathan Sill, NRS	Attn: Eric Jones, Senior Engineer

Kerr-McGee Oil & Gas Onshore LP
Wellington Federal 31-30 SWD
731' FNL 2,332' FEL (NW/4 NE/4)
Section 30 Township 14 South – Range 11 East
SLB&M
Carbon County, Utah
Federal Lease: UTU080565

SURFACE USE PLAN OF OPERATIONS

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. This NOS process included an on-site meeting on December 17-19, 2007 prior to the submittal of the application, at which time the specific concerns of Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) and the BLM were discussed. Specific concerns of the BLM representatives are addressed herein, as are specific stipulations from the BLM.

* Specific stipulations arising from the on-site meeting are shown as starred.

WELL LOCATION AND INTRODUCTION:

The proposed location is at 731' FNL 2,332' FEL of Section 30, T14S R11E, SLB&M. The well site was surveyed and staked at a geologically preferable location by Uintah Engineering & Land Surveying (UELS).

An NOS was submitted to BLM in Moab, Utah on October 21, 2007 for this location. An on-site meeting was held on December 17-19, 2007. Present were: Nathan Sill – BLM, Price; Jim Hartely, Gina Becker, and Tom Richardson – Kerr-McGee; Nick Hall – Grasslands Consulting; Chuck Bollong – SWCA; Uintah Engineering and Land Surveying; and Keith Dana – Dana Consulting.

DIRECTIONS TO LOCATION

From Price, Utah, go easterly then southeasterly on Highway 6 (East Main Street) to East Old Wellington Road. Turn left (east) onto East Old Wellington Road, and continue east and then southeast to South Old Wellington Road. Turn left (north) on South Old Wellington Road and continue on the road as it curves northeast for approximately 0.4 miles. Then continue north on South Old Wellington Road to North Coal Creek Road. Turn right (east) on North Coal Creek Road and travel northeasterly for approximately 0.6 miles to the beginning of the proposed access road. Turn left (north) and travel northwesterly on the proposed access road for approximately 0.25 miles and then turn right (east) for approximately 0.03 miles (170') to the well pad.

1) EXISTING ROADS

- A) The well is a development well.
- B) Existing roads within 1 mile are within 0.28 miles of location.
- C) Plans for improvement and/or maintenance of existing roads are to be maintained in as good or better conditions than at present and said maintenance will continue until final abandonment and reclamation of this drilling location.

- 2) **PLANNED ACCESS ROADS** (See Topos A, B, and D)
±1,478' (0.28 miles) – Total new road construction, Sec. 30 – Fed, on lease

This Application for Permit to Drill (APD) can serve as a request for BLM to initiate a Right of Way (ROW) application for access roads and water haul routes, if necessary. This ROW can continue up to the wellhead.

- A) Running surface will be crowned/ditched with a running surface ±16' and the total disturbed width to be ±50'. Plans for improvement and/or maintenance of existing roads are to maintain in as good or better conditions than at present. A regular maintenance plan will include, but not be limited to blading, ditching, and surfacing.
- B) Borrow ditches to be back sloped 3:1 or shallower.
- C) Maximum grades will not exceed BLM standards.
- D) Culverts and low-water crossings will be installed as needed prior to drilling. Drainage to consist of borrow ditches on both sides and "wind ditches" as appropriate. Riprap will be placed at the inlet and outlet at the culvert adjacent to the wellpad. Low water crossings may be used during drilling and upon completion if conditions dictate. Culverts will be installed prior to commencement of drilling operations. The borrow ditches along the proposed access road will be re-seeded if the well is completed as a producer. The reseeded of the borrow ditches will reduce the area utilized by this location.
- E) Surfacing material to consist of native material from borrow ditches. Road will be gravel surfaced. Gravel will be hauled by truck from a licensed facility.
- F) No major road cuts are necessary.
- G) Fence cuts, gates and/or cattle guards will be installed as necessary.
- H) Upgrade and maintain access roads as necessary to prevent solid erosion and accommodate year-round traffic.
- I) All equipment and vehicles will be confined to the access road, pad, and areas specified in the APD.
- J) The proposed access road will be constructed in accordance with roading guidelines established for oil and gas exploration and development activities as referenced in the joint BLM/USFS publications: Surface Operating Standards for Oil & Gas Exploration and Development, Third Edition and/or BLM Manual Section 9113 concerning road construction activities on projects under federal jurisdiction. The qualified construction supervisor shall be an engineer, company superintendent or other representative who is competent and knowledgeable in oilfield road and drillsite construction, and able to speak for the operator. The dirt contractor, or drilling/completion foremen whose primary expertise is not in construction, do not qualify as construction supervisors.
- K) Construction activity shall not be conducted using frozen or saturated solid material or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur.
- L) Vegetative debris is not permitted in or under fill embankments.

3) LOCATION OF EXISTING WELLS

Within a 1-mile radius:

Proposed:	2
Drilling/injection:	None
Shut-In:	None
Producing:	None

LOCATION OF EXISTING PRODUCING FACILITIES OPERATED BY *Kerr-McGee Oil & Gas Onshore LP*

Within one mile: None

4) NEW PRODUCTION FACILITIES PROPOSED

- A) BLM will be contacted prior to construction of production facilities. A Sundry Notice (SN) will be filed if requested by BLM.
- B) Meter houses are skid mounted. A pump house may be installed if needed. Flow lines will be buried alongside or under the access road. Electric power will be buried wires and poles, also installed alongside the access road. Both will be within the corridor as surveyed by the archaeologist. Any changes from this plan will be submitted to the BLM Field Office by Sundry Notices. New flow lines will connect with existing flow lines, produced fluid will be piped to the existing tank battery.
- B) Dimension of Proposed Facility is 325' x 185' or less (60,125 ft²) for drilling operations. Total disturbance will be approximately 1.38 acres.
- C) Site preparation for production will be done with standard excavation equipment using native materials. Additional surface material will be obtained from commercial sources or the approved borrow area. Production facilities (including dikes), if used, must be placed on the cut portion of the location and a minimum of 15 feet from the toe of the back cut.
- D) Production equipment will be painted light reflective colors to limit evaporation and waste of liquid hydrocarbons, per BLM specifications.
All permanent above-the-ground structures, tank batteries, etc. if used, that will remain longer than six (6) months will be painted Olive Black, or as specified by BLM. The exception being that Utah Occupation Health and Safety Act Rules and Regulations are to be complied with where special safety colors are required.
- E) Production facilities are planned on location, and may vary according to actual reservoir discovered and will be engineered upon completion of well tests. Production facilities will be clustered and placed away from cut slopes and fill slopes to allow the maximum recontouring of cut and fill slopes.
If used, a dike will be constructed completely around the production facilities (e.g. production tanks, water tanks, and/or heater-treater). The dikes for the production facilities must be constructed of compacted subsoil, hold the capacity of the largest tank, and be independent of the back cut. Any production pits will be fenced.
If the well is a producer, all production facilities not listed herein will be authorized by Sundry Notice.
- F) No facilities will be constructed off location except as noted in paragraph A) above.
- G) Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut and fill slopes to the surrounding topography. No depressions will be left that trap water or form ponds.

These areas will be re-seeded. Refer to plans for restoration of surface for additional details.

- H) Pits which contain oil, if used, will be overhead flagged. None are planned at this time.
- I) Proposed utility corridor information:

This Application for Permit to Drill (APD) can serve as a request for BLM to initiate a Right of Way (ROW) application for access roads and water haul routes, if necessary. This ROW can continue up to the wellhead.

The proposed utility corridor consists of approximately 0.28 total miles ($\pm 1,500'$) of right-of-way (ROW) on Fed lands.

The following items will be in one trench on one side of the access road:

- A gas transportation pipeline
- A produced water transportation pipeline

On the opposite side of the access road, the power supply (12470 volt power) for the well will be buried.

The gas transportation pipeline would transport recovered gas from this well to an existing interconnect with the existing pipeline infrastructure. The existing pipeline is operated by Kerr-McGee, and the proposed pipeline will be constructed by Kerr-McGee.

The utility corridor alignment will be located adjacent to the proposed access road ROW between this well and the existing portion of access road.

This utility corridor will begin at this well, then traverse southeasterly approximately 1,500' to tie in with the proposed utility corridor for the Wellington Federal 11-19.

Ownership of the ROW to be utilized is as follows:

T14S R10E Sec. 30	Fed (on lease)	$\pm 1,478'$	± 0.28 miles
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TOTAL LENGTH - NEW CONSTRUCTION TO BE UTILIZED ON FED LANDS
ROW – ± 0.28 MILES

The utility corridor pipeline ROW will be in the existing transportation ROW with minimal disturbance. Construction equipment will utilize the access road as much as possible. The ROW will consist of a 70' total width. The actual right of way will include a 50' width from the centerline of the road to the outside edge of the access road ROW as surveyed by the archeologist.

The gas gathering pipeline construction specifications are as follows:

Gas transportation pipeline:

Diameter:	10.293" AID 12" (nominal)
Wall Thickness:	1.159"
Grade	SDR 11
Design Pressure:	100 psig
Actual Pressure:	60-95 psig
Pressure Test Fluid:	Air
Pipeline Depth:	36"-48"

The water gathering pipeline construction specifications are as follows:

Water gathering pipeline:

Diameter:	10" (nominal)
Wall Thickness:	2.388"
Grade	SDR 9
Design Pressure:	100 psig
Actual Pressure:	60-95 psig
Pressure Test Fluid:	Air
Pipeline Depth:	36"-48"

The allocation and sales meters will be located in the immediate vicinity of the wellhead unless other wise modified by a Sundry Notice.

- i) Pipeline shall be constructed as shown on the attached map and plat. Graders shall be used to construct or to clear the pipeline ROW wherever feasible. Angle dozers would be used if terrain dictates. The ROW shall not be cleared more than an additional fifty (50) feet wide (preferably five (5) feet wide on the soil stockpile side, and twenty (20) feet wide on the working side of the trench minimum) without approval. Bladed materials shall be placed back into the cleared route once construction is completed. Pipeline to be welded and dragged with a dozer into place. Alternatively, certain portions of the pipeline may be constructed by laying pipe in the existing road borrow ditch, picking the pipe up with side boom cats, then welding and placing along side of the road. All construction will be with as little surface disturbance as possible.
- ii) Pipeline construction shall not block nor change the natural course of any drainage. Trenches will be dug with 1-4 backhoes; the number is subject to availability at the time of construction. A trencher would be used only if the backhoes are not available. Suspended pipelines, which are not currently anticipated but if needed, shall provide adequate clearance for maximum runoff.
- ii) Pipeline trenches shall be compacted at road crossings during backfilling. Pipeline trenches shall be maintained in order to correct settlement and erosion. Road crossings will be trenched to a depth of five (5) feet prior to placing the pipeline in the trench. Following the placement of the pipeline into the trench all open road cuts will backfilled and compacted in order to maintain the integrity of the existing road.
- iii) The pipeline will be tested with air prior to filling the trench.
- iv) Minimal water will be needed as this well will be air-drilled. When water is needed, it will be obtained from the city of Price.

Water requirements are anticipated to be minimal or less than approximately 10,814 bbls (454,188 gallons or 1.40 acre-feet).

- v) All above ground permanent structures including production equipment (valving and piping, etc.) will be painted a non-contrasting color to blend harmoniously with the surrounding landscape, as specified by BLM.
- vi) Topsoil, as available, will be removed prior to pipeline construction from along the working side of the pipeline ROW and stockpiled for future reclamation. Topsoil depth of 6" to be removed as stipulated by BLM.
- vii) Pipeline markers will be installed where appropriate.
- viii) Pipeline construction is anticipated to be approximately three (3) to six (6) weeks.
- ix) Anticipated equipment area as follows:
 - Wellington Federal 44-6, SE/4 SE/4 Sec. 6 T14N R11E. This is an existing SWD well, and the storage area is covered under BLM ROW UTU-079503
- x) Anticipated full time personnel are as follows:
 - 1 – Supervisor
 - 1 – Pipeline supervisor
 - 3 – Trenching crew (welders with helpers)
 - 3 – Trucks
 - 3 – Dozer, Track hoe, Blade

Part-time technical support persons will be on-site from time to time as necessary.

- xi) Waterbars are to be constructed at least one (1) foot deep, on the contour with approximately two (2) feet of drop per 100 feet of waterbar to ensure drainage, and extended into established vegetation.

All waterbars are to be constructed with the berm on the downhill side to prevent the soft material from silting in the trench. The initial waterbar should be constructed at the top of the backslope. Subsequent waterbars should follow the following general spacing guidelines:

% SLOPE	SPACING INTERVAL (feet)
2 or <	200
2 - 4	100
4 - 5	75
5 or	50

5) LOCATION OF WATER SUPPLY

- A) Minimal water will be needed as this well will be air-drilled. When water is needed, it will be obtained from the city of Price.
- B) Anticipated water use is as follows:
 - Air drilling will be used, so the mud drilling water requirements will be minimal, if any.

6) SOURCE OF CONSTRUCTION MATERIALS

- A) Construction materials will consist of native materials from borrow ditches and location areas.
- B) Surfacing materials will be obtained from available permitted sources, if needed, and consist of pit gravel. Gravel will be hauled by truck from a licensed facility.

7) WASTE DISPOSAL

- A) Drill cuttings will be buried in reserve pit when dry.
- B) Drilling fluid will be evaporated and then buried in the reserve pit when dry.

- C) Reserve pit layout is illustrated on Figures 1 and 2.
- * D) Reserve pit will be lined with a synthetic liner 12 mil or thicker. The reserve pit liner shall be made of any manmade synthetic material of sufficient size and qualities to sustain a hydraulic conductivity no greater than 1×10^{-7} cm/sec after installation and which is sufficiently reinforced to withstand normal wear and tear associated with the installation and pit use thereof. The liner shall be chemically compatible with all substances that may be put into the pit.
- E) Reserve pit will be fenced on three sides during drilling operations, and on fourth side at time of rig release. Pit will remain fenced until backfilled.
- * F) If used, a flare pit for air drilling will be located minimum 100' from wellbore.
- * G) Produced fluid will be contained in test tanks during completion and testing.
- * H) Sewage disposal facilities will be in accordance with State and Local Regulations. Sewage may not be buried on location or put in a borehole. Utah Department of Environmental Quality (UDEQ) Regulations prevent this unless a UDEQ Permit is obtained.
- * I) Garbage and other waste - burnable waste will be contained in a portable trash cage which will be totally enclosed with small mesh wire. Cage and contents will be transported to and trash dumped at a WDEQ approved Sanitary Landfill upon completion of operations.
- J) Trash will be picked up if scattered and contained in trash cage as soon as practical after rig is moved off.
- K) Upon release of the drilling rig, rathole and mousehole will be filled. Debris and equipment not required for production will be removed.

8) ANCILLARY FACILITIES

No ancillary facilities will be necessary.

9) WELLSITE LAYOUT(See Figures 1 and 2)

Note: Bureau of Land Management will be contacted prior to reserve pit construction and provided an opportunity to inspect the pit prior to filling with water.

- A) See attached drill site plat and cut/fill diagram.
- B) Roads and well production equipment, such as tanks, treaters, separators, vents, electrical boxes, and equipment associated with pipeline operation, will be placed on location so as to permit maximum interim reclamation of disturbed areas. If equipment is found to interfere with the proper interim reclamation of disturbed areas, the equipment may be moved so proper recontouring and revegetation can occur.
- C) If there is snow on the ground when construction begins, the operator will remove it before the soil is disturbed, and pile it downhill from the topsoil stockpile location.
- D) Both backslope and foreslope will be constructed no steeper than 1½:1.
- E) Erosion control measures will be applied pursuant to Kerr-McGee's General Permit to Discharge Stormwater under the Utah Pollutant Discharge Elimination System and accompanying Stormwater Pollution Prevention Plan.

10) SURFACE PREPARATION

(General)

- A) Salvaging and spreading topsoil will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet.
- B) Earthwork for interim and final reclamation must be completed within six (6) months of well completion or plugging (weather permitting).

- C) In areas that will not be drill-seeded, the seed mix will be applied and fertilized per BLM's Conditions of Approval (COAs).
- D) No seeding will occur from May 15 to September 15. Fall seeding is preferred and will be conducted after September 15 and prior to ground freezing. Spring seeding will be conducted after the frost leaves the ground and no later than May 15.
- E) Annual or noxious weeds shall be controlled on all disturbed areas as directed by the Field Office Manager. An intensive weed monitoring and control program will be implemented beginning the first growing season after interim and final reclamation. Noxious weeds that have been identified during monitoring will be promptly treated and controlled. A Pesticide Use Proposal (PUP) will be submitted to the BLM for approval prior to the use of herbicides. All reclamation equipment will be cleaned prior to use to reduce the potential for introduction of noxious weeds or other undesirable non-native species. The operator will coordinate all weed and insect control measures with state and/or local management agencies.
- F) Reclaimed areas will be monitored annually. Actions will be taken to ensure that reclamation standards are met as quickly as reasonably practical.
- G) Reclamation monitoring will be documented in an annual reclamation report submitted to the AO by December 31. The report will document compliance with all aspects of the reclamation objectives and standards, identify whether the reclamation objectives and standards are likely to be achieved in the near future without additional actions, and identify actions that have been or will be taken to meet the objectives and standards. The report will also include acreage figures for: Initial Disturbed Acres; Successful Interim Reclaimed Acres; Successful Final Reclaimed Acres. Annual reports will not be submitted for sites approved by the AO in writing as having met interim or final reclamation standards. Any time 30% or more of a reclaimed area is redisturbed, monitoring will be reinitiated.
- H) The AO will be informed when reclamation has been completed, is successful, and the site is ready for final inspection.

INTERIM RESTORATION (Production)

- A) Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut and fill slopes. These areas will be re-seeded.
- B) Wellpad size will be reduced to minimum size necessary to conduct safe operations. Cuts and fills will be reduced to 3:1 or shallower.
- C) Reserve pits will be closed and backfilled as soon as the pit contents are dry enough to do so, or no later than the end of the next full summer following rig release, whichever comes first, to allow sufficient time for the pit contents to dry. Reserve pits remaining open after this period will require written authorization of the Authorized Office (AO). Immediately upon well completion, any hydrocarbons or trash in the reserve and flare pits will be removed. Pits will be allowed to dry, be pumped dry, or solidified in-situ prior to backfilling.
- D) Following completion activities, pit liners will be buried to prevent their reemergence to the surface and interference with long-term successful revegetation. If it was necessary to line the pit with a synthetic liner, the pit will not be trenched (cut) or filled (squeezed) while containing fluids. When dry, the pit will be backfilled with a minimum of five (5) feet of

soil material. In relatively flat areas, the pit area will be slightly mounded to allow for settling and to promote surface drainage away from the backfilled pit.

- E) The portions of the cleared well site not needed for operational and safety purposes will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Sufficient level area will remain for setup of a workover rig and to park equipment. In some cases, rig anchors may need to be pulled and reset after recontouring to allow for maximum interim reclamation.
- * F) Topsoil will be evenly respread and aggressively revegetated over the disturbed area not needed for all-weather operations back to the rig anchors, including road cuts and fills and to within a few feet of the production facilities, unless an all-weather, surfaced, access route or small “teardrop” turnaround is needed on the well pad.
- G) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by BLM (shown below) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut and fill slopes.
- H) To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, debris, and rock over recontoured cut and fill slopes.
- * I) A proposed seed mixture for this location in Salt desert shrub habitat is:

Indian ricegrass (Nezpar)	<i>Achnatherum hymenoides</i>	2.0
Squirreltail	<i>Elymus elymoides</i>	2.0
Galleta	<i>Hilaria jamesii</i>	2.0
Russian wildrye	<i>Psathyrostachys juncea</i>	2.0
Gooseberryleaf globemallow	<i>Sphaeralcea grossulariifolia</i>	0.5
Palmer penstemon (Cedar)	<i>Penstemon palmeri</i>	0.5
Winterfat	<i>Krascheninnikovia lanata</i>	1.0
Fourwing saltbush	<i>Atriplex canescens</i>	1.0
Forage kochia	<i>Kochia prostrata</i>	<u>0.5</u>
		11.5
- J) Reclamation will be considered successful if the following criteria are met, or as specified by BLM:
 - 70 percent of predisturbance cover
 - 90 percent dominate species *
 - Erosion features equal to or less than surrounding area
- * The vegetation will consist of species included in the seed mix and/or occurring in the surrounding natural vegetation.

FINAL RESTORATION (P & A – Removal of equipment)

- A) Flowlines on location will be removed before site reclamation and all flowlines between the wellsite and production facilities will remain in place and will be filled with water.
- B) If necessary to ensure timely revegetation, the pad will be fenced to BLM standards to exclude livestock grazing for the first two growing seasons or until seeded species become firmly established, whichever comes later. Fencing will meet standards found on page 18 of the Gold Book, 4th Edition, or will be fenced with operational electric fencing.
- C) Revegetation will be accomplished by planting mixed grasses as specified below. Revegetation is recommended for road area as well as around production site.
- * D) A proposed seed mixture for this location in Salt desert shrub habitat is:

Indian ricegrass (Nezpar)	<i>Achnatherum hymenoides</i>	2.0
Squirreltail	<i>Elymus elymoides</i>	2.0
Galleta	<i>Hilaria jamesii</i>	2.0
Russian wildrye	<i>Psathyrostachys juncea</i>	2.0
Gooseberryleaf globemallow	<i>Sphaeralcea grossulariifolia</i>	0.5
Palmer penstemon (Cedar)	<i>Penstemon palmeri</i>	0.5
Winterfat	<i>Krascheninnikovia lanata</i>	1.0
Fourwing saltbush	<i>Atriplex canescens</i>	1.0
Forage kochia	<i>Kochia prostrata</i>	<u>0.5</u>
		11.5
- E) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by BLM (shown below) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut & fill slopes.
- * F) Distribute topsoil, if any remains, evenly over the location, and seed according to the above seed mixture. If needed the access road and location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.
- G) All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Resalvaged topsoil will be spread evenly over the entire disturbed site to ensure successful revegetation. To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, woody debris, and large rocks over recontoured cut and fill slopes.
- H) BLM will not release the operator's bond until the area has been successfully reclaimed (evaluation will be made after the first growing season) to the standards of the surface owner or surface management agency.
- I) An above-round tubular metal dry-hole marker will be erected over the drill-hole upon cessation of drilling and/or testing operations. The marker will be inscribed with the operator's name, well number, well location, and federal lease number. Upon request of the surface owner, the casing may be cut off three (3) feet below reclaimed ground surface (or below plow depth) with a metal plate affixed to the top providing the same

well information as stated above. This must consist of a piece of pipe not less than four inches in diameter and ten feet in length, of which four feet shall be above the general ground level and the remainder being imbedded in cement. The top of the pipe must be closed by a welded or screw cap, cement or other means.

- J) The Area Manager, Bureau of Land Management, Price Field Office, will be contacted if there are any questions concerning the above rehabilitation stipulations (435) 636-3600 is the BLM contact for this location. All rehabilitation work, including seeding, will be completed by a certified contractor if the well is a dry hole.

11) SURFACE OWNERSHIP

Surface Owner

Drillsite/Access

Bureau of Land Management Sec. 30
Price Field Office
125 South 600 West
Price, UT 84501 Phone: 435-636-3600

12) GENERAL INFORMATION

- A) The project area is situated within the Colorado Plateau physiographic province, in the lowlands that encircle the northern edge of the San Rafael Swell. The Price River drainage (Castle Valley) is located to the west and south of the project area; the Coal Creek drainage is located to the east of the project area, and confluences with the Price River south of the project area near the town of Wellington.
- B) Topographic and geologic features – poorly bedded mixture of silt, sand, pebbles, cobbles, and boulders derived from adjacent uplands formed by the Book Cliffs.
- C) Soil characteristics – clay loam.
- D) Flora consists of: Big sagebrush, Shadscale saltbrush, Broom snakeweed (Matchbrush), Crested wheatgrass and Cheatgrass.
- E) Fauna – none observed. Typically present: deer, elk, antelope, coyotes, rabbits, birds, and rodents.
- F) Concurrent surface use – grazing and hunting.
- G) Mineral Lessor - Bureau of Land Management
Price Field Office
125 South 600 West
Price, UT 84501 Phone: 435-636-3600
- H) Proximity of water, occupied dwellings or other features: Adjacent to unnamed intermittent drainage that flows into the Wellington Canal.
- I) Archaeological, cultural and historical information to be contained in a report sent under separate cover by SWCA Environmental Consultants.
- J) Construction activity shall not be conducted using frozen or saturated solid material or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur.
- K) The operator shall be responsible for the prevention and suppression of fires on public lands caused by its employees, contractors or sub-contractors. During conditions of extreme fire danger, surface use operations may be limited or suspended in specific areas.
- L) Unless otherwise exempted, free and unrestricted public access shall be maintained on the lease and associated rights-of-way.

- M) Facilities approved by the Application for Permit to Drill that are no longer included within the lease, due to a change in the lease or unit boundary, shall be authorized with a right-of-way.
- N) Historic, Cultural, and Paleontological Resources
The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five (5) working days the AO will inform the operator as to:
- whether the materials appear eligible for the National Register of Historic Places;
 - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and,
 - a timeframe for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the finds of the AO are correct and that mitigation is appropriate.
- If the operator wishes, at any time, to relocate activities to avoid the expense of the mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed the operator will then be allowed to resume construction.
- “The holder of this authorization shall immediately bring any paleontological resources or fossils discovered as a result of operations under this authorization to the attention of the authorized officer. The holder shall suspend all activities in the vicinity of such discovery until notified to proceed by the authorized officer. The authorized officer will evaluate, or will have evaluated, such discoveries not later than five (5) working days after being notified, and will determine what action shall be taken with respect to such discoveries. The decision as to the appropriate measures to mitigate adverse effects to significant paleontological resources will be made by the authorized officer after consulting with the holder. The holder may be responsible for the cost of any investigations necessary for the evaluation, and for any mitigative measures.”
- O) Kerr-McGee Oil & Gas Onshore LP maintains a file, per 29 CFR 1910.1200(g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be transported across these lands may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous substances, EHS, and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

LESSEE'S OR OPERATOR'S REPRESENTATIVE(S):

Operator

Corporate Office:

Kerr-McGee Oil & Gas Onshore LP
1099 18th Street
Denver, CO 80202
(720) 929-6000

Jim Klechner, Vice President, Operations
Reed Scott, General Manager, Rockies
Ann Puchalski, Senior Geologist
Grant Schluender, Drilling Engineer II
Debby Black, Staff Regulatory Analyst **

Field Office:

60 South 700 East, Unit #1
Price, UT 84501
(435) 637-3044

Jim Hartley, Production Superintendent

** Contact with any questions regarding this application

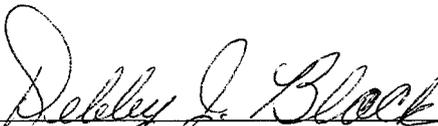
CERTIFICATION:

I hereby certify that Kerr-McGee Oil & Gas Onshore LP and its contractors and sub-contractors are responsible for the operations conducted under this application subject to the terms and conditions of the mineral lease. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Kerr-McGee Oil & Gas Onshore LP under their nationwide bond, BLM Bond No. WYB000291.

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

Date:

March 26, 2008



Debby J. Black
Staff Regulatory Analyst

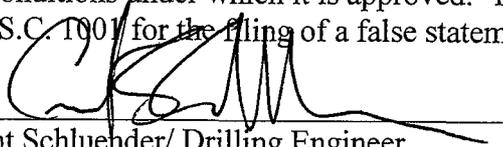
CERTIFICATION STATEMENT

WELL NAME: Wellington Federal 31-30 SWD

LEASE NO.: UTU-080565

I hereby certify that I, or person under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with operations herein will be performed by Pense Brothers Drilling Company, Inc., Xtreme Coil Drilling Corp., and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Name and Title


Grant Schluender/ Drilling Engineer

Dated this 19th day of March, 2008.

**Kerr-McGee Oil & Gas Onshore LP
WELLINGTON FEDERAL #31-30 SWD
SECTION 30, T14S, R11E, S.L.B.&M.**

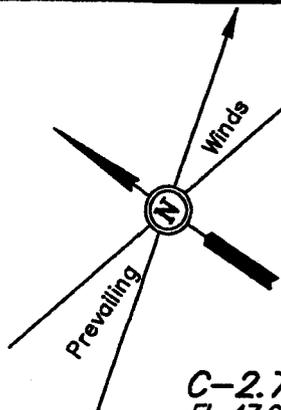
PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION FROM PRICE, UTAH APPROXIMATELY 2.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, EASTERLY, THEN NORTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE PROPOSED ACCESS FOR #32-30 THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 100' TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #11-19 TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 170' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM PRICE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 7.05 MILES.

Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

LOCATION LAYOUT FOR
 WELLINGTON FEDERAL #31-30 SWD
 SECTION 30, T14S, R11E, S.L.B.&M.
 731' FNL 2332' FEL



SCALE: 1" = 50'
 DATE: 01-07-08
 Drawn By: M.D.

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

CONSTRUCT DIVERSION DITCH

Approx. Top of Cut Slope

Approx. Toe of Fill Slope

C-2.7'
 El. 47.0'

Topsoil Stockpile

Sta. 3+25
 F-1.1'
 El. 43.2'
 Round Corners as Needed

Reserve Pit Backfill & Spoils Stockpile

RESERVE PITS (10' Deep)
 1 1/2:1 Slope

Total Pit Capacity W/2' of Freeboard = 3,810 Bbls. ±
 Total Pit Volume = 1,130 Cu. Yds.

C-6.5'
 El. 50.8'

C-3.1'
 El. 47.4'

Sta. 0+00

F-0.7'
 El. 43.6'

Proposed Access Road

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5644.9'
 FINISHED GRADE ELEV. AT LOC. STAKE = 5644.3'

UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East • Vernal, Utah 84078 • (435) 788-1077

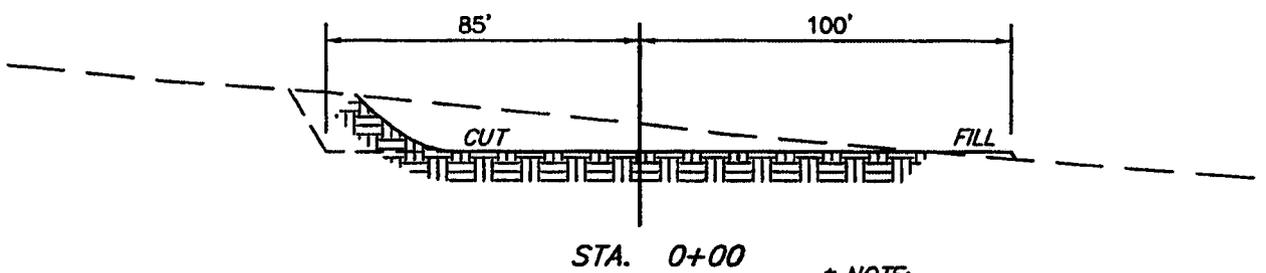
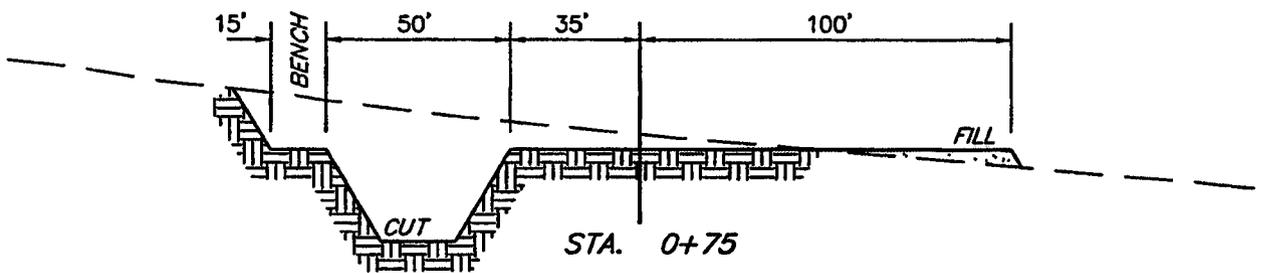
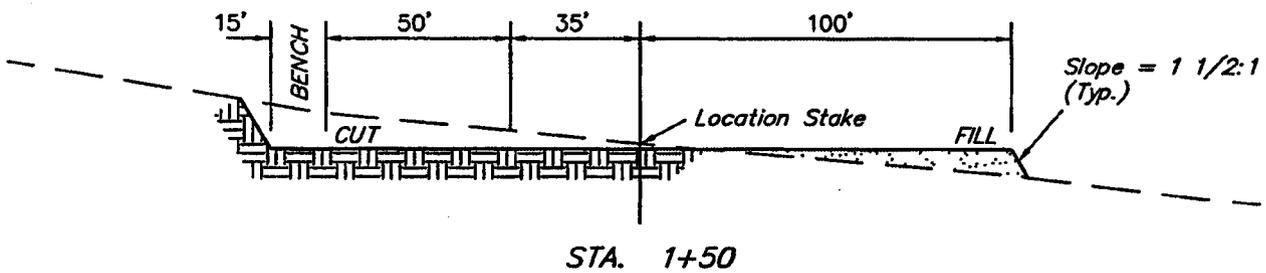
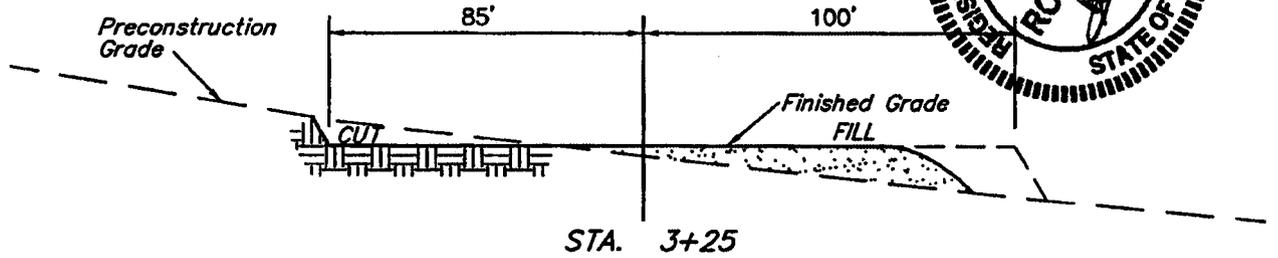
Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

TYPICAL CROSS SECTIONS FOR
 WELLINGTON FEDERAL #31-30 SWD
 SECTION 30, T14S, R11E, S.L.B.&M.
 731' FNL 2332' FEL

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

DATE: 01-07-08
 Drawn By: M.D.



* NOTE:
 FILL QUANTITY INCLUDES
 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,240 Cu. Yds.
Remaining Location	= 3,810 Cu. Yds.
TOTAL CUT	= 5,050 CU.YDS.
FILL	= 2,460 CU.YDS.

EXCESS MATERIAL	= 2,590 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,810 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 780 Cu. Yds.

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

Kerr-McGee Oil & Gas Onshore LP
WELLINGTON FEDERAL #31-30 SWD
 LOCATED IN CARBON COUNTY, UTAH
 SECTION 30, T14S, R11E, S.L.B.&M.

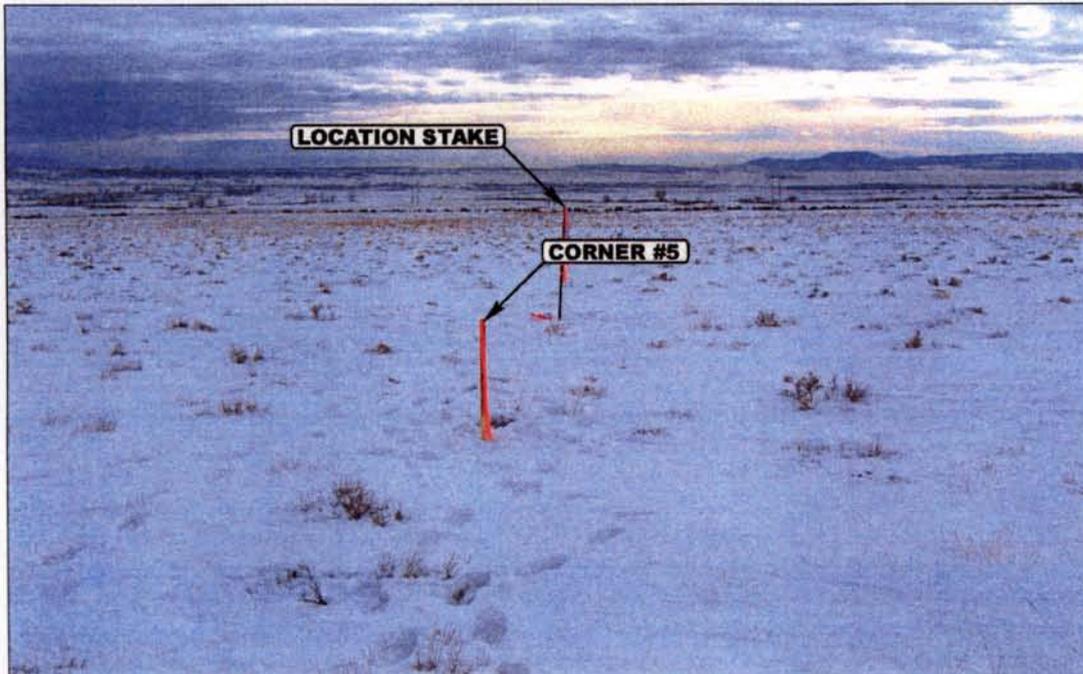


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



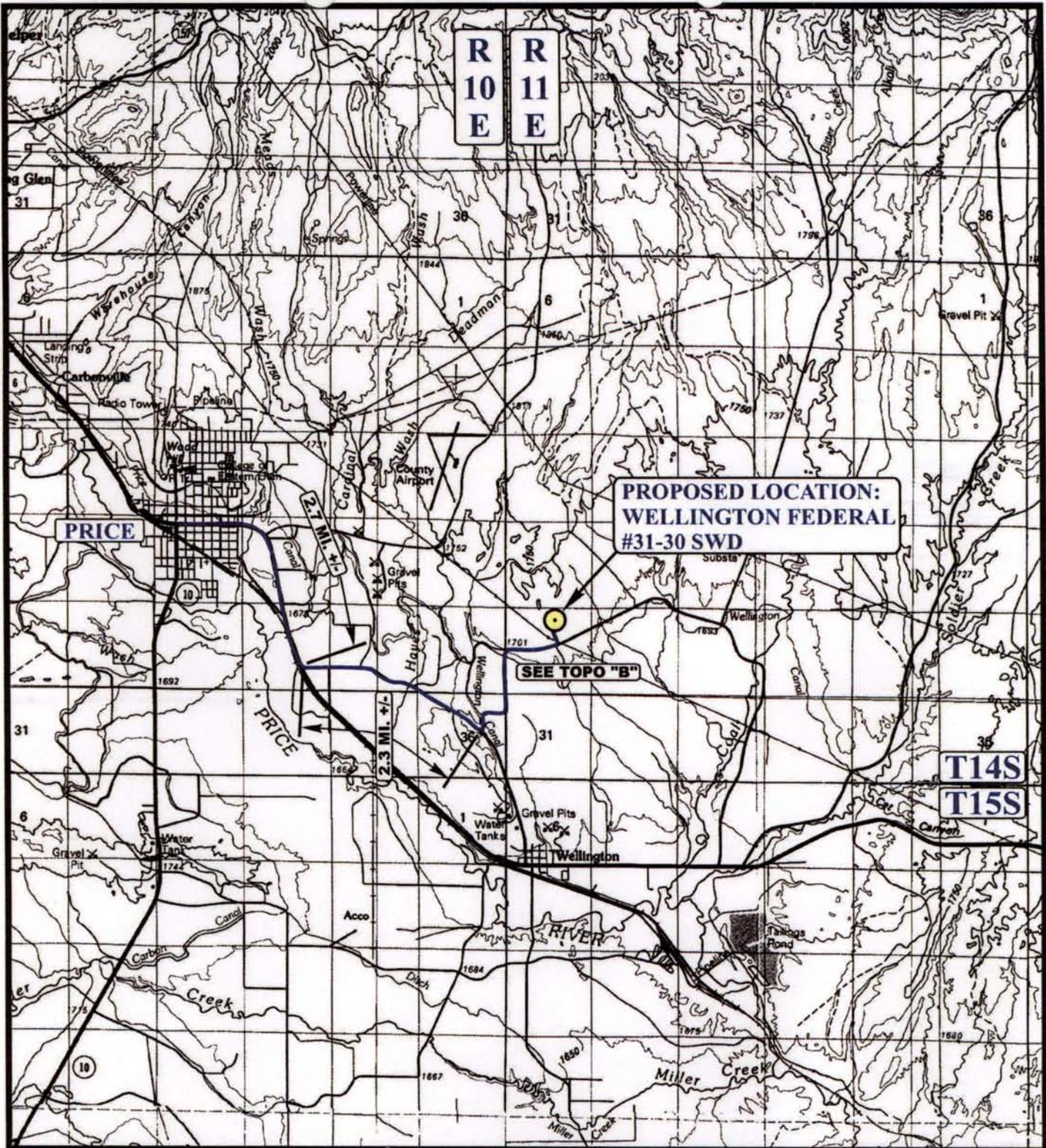
PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



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

LOCATION PHOTOS	01	08	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: B.B.	DRAWN BY: Z.L.	REVISED: 00-00-00		



**PROPOSED LOCATION:
WELLINGTON FEDERAL
#31-30 SWD**

SEE TOPO "B"

**T14S
T15S**

LEGEND:

 **PROPOSED LOCATION**



**Kerr-McGee Oil & Gas Onshore LP
WELLINGTON FEDERAL #31-30 SWD
SECTION 30, T14S, R11E, S.L.B.&M.
731' FNL 2332' FEL**

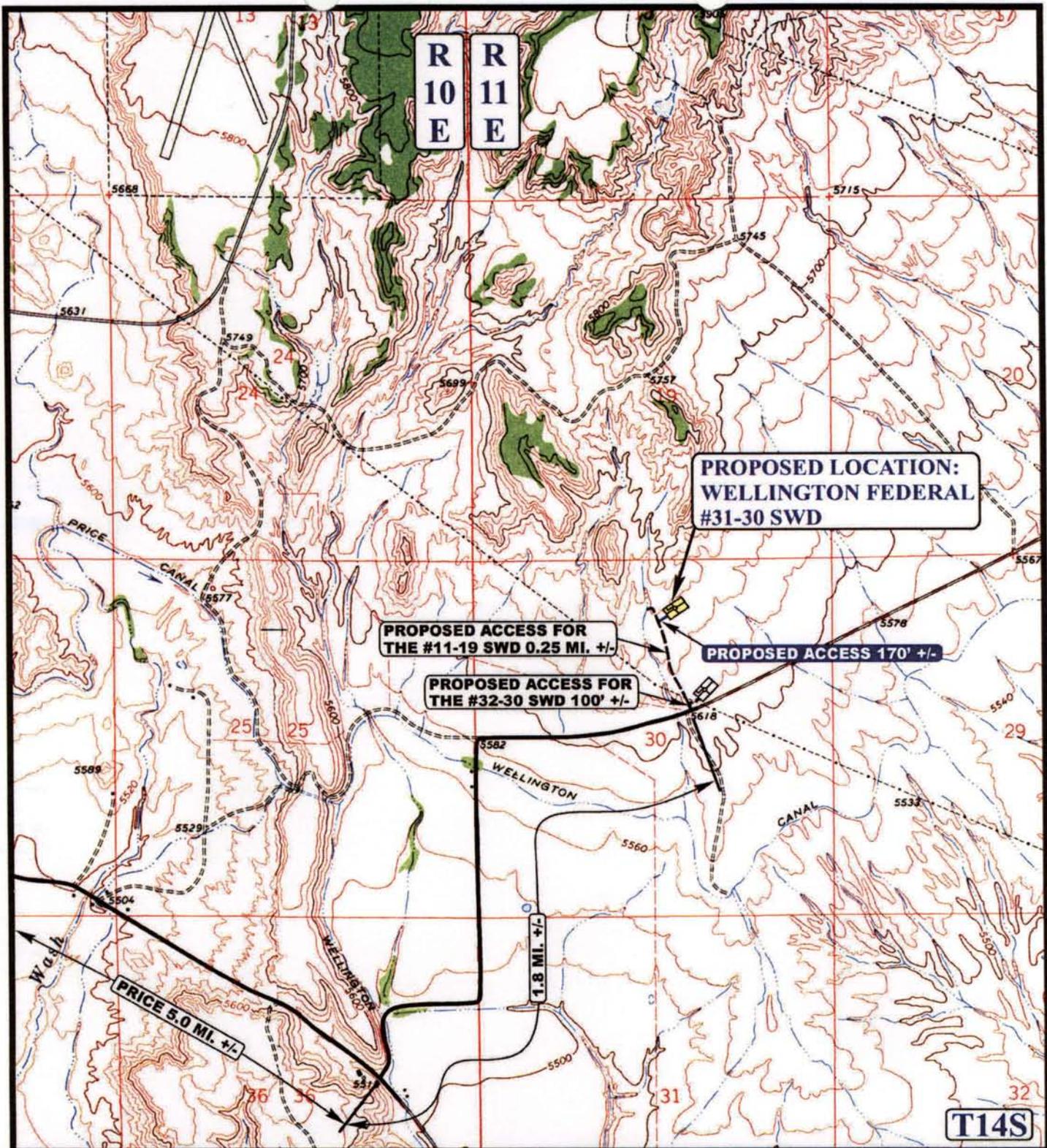


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

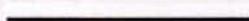
TOPOGRAPHIC 01 08 08
MAP MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00





LEGEND:

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



Kerr-McGee Oil & Gas Onshore LP
WELLINGTON FEDERAL #31-30 SWD
SECTION 30, T14S, R11E, S.L.B.&M.
731' FNL 2332' FEL



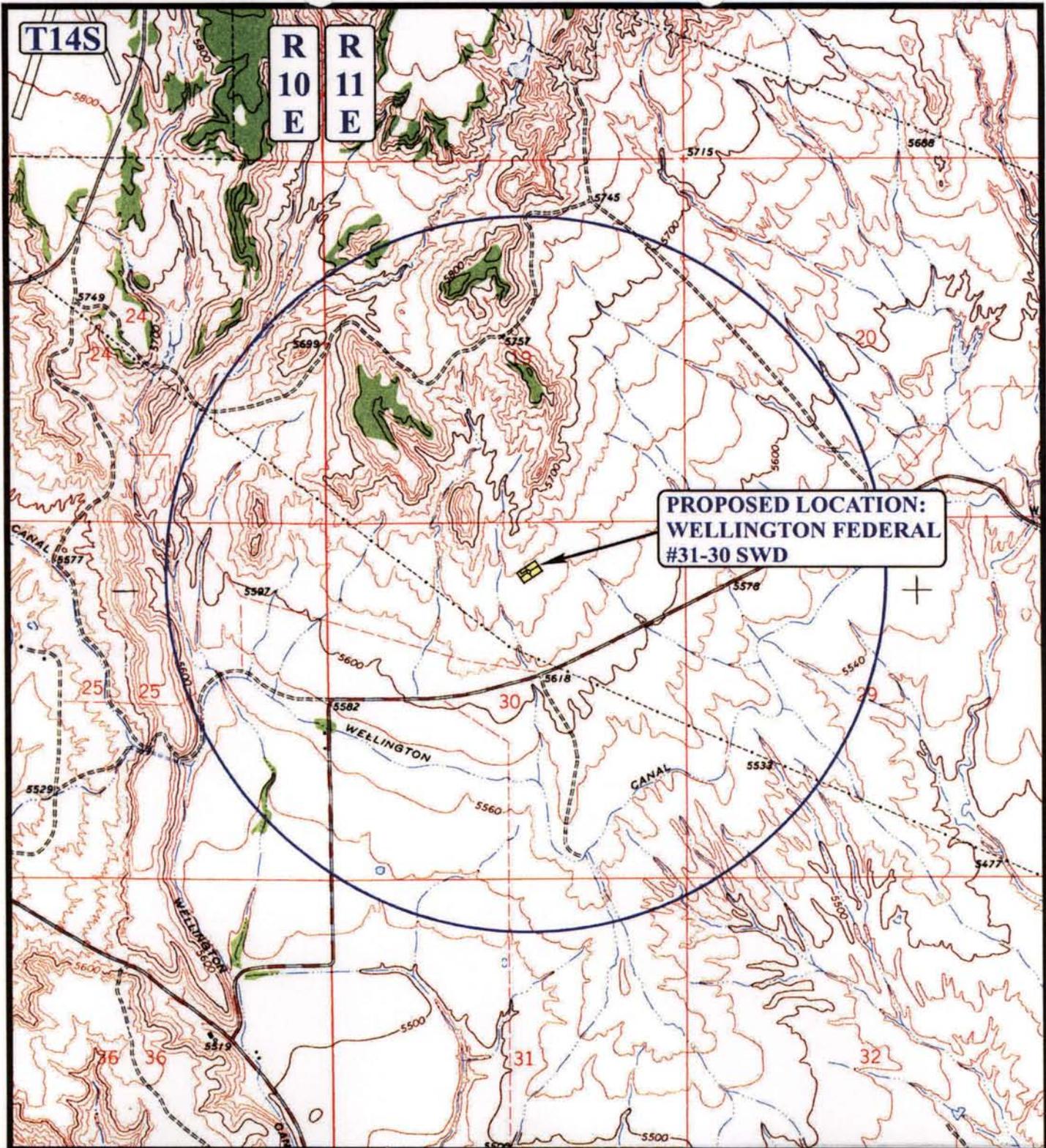
Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

01 08 08
 MONTH DAY YEAR



SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00



LEGEND:

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



Kerr-McGee Oil & Gas Onshore LP

WELLINGTON FEDERAL #31-30 SWD
SECTION 30, T14S, R11E, S.L.B.&M.
731' FNL 2332' FEL



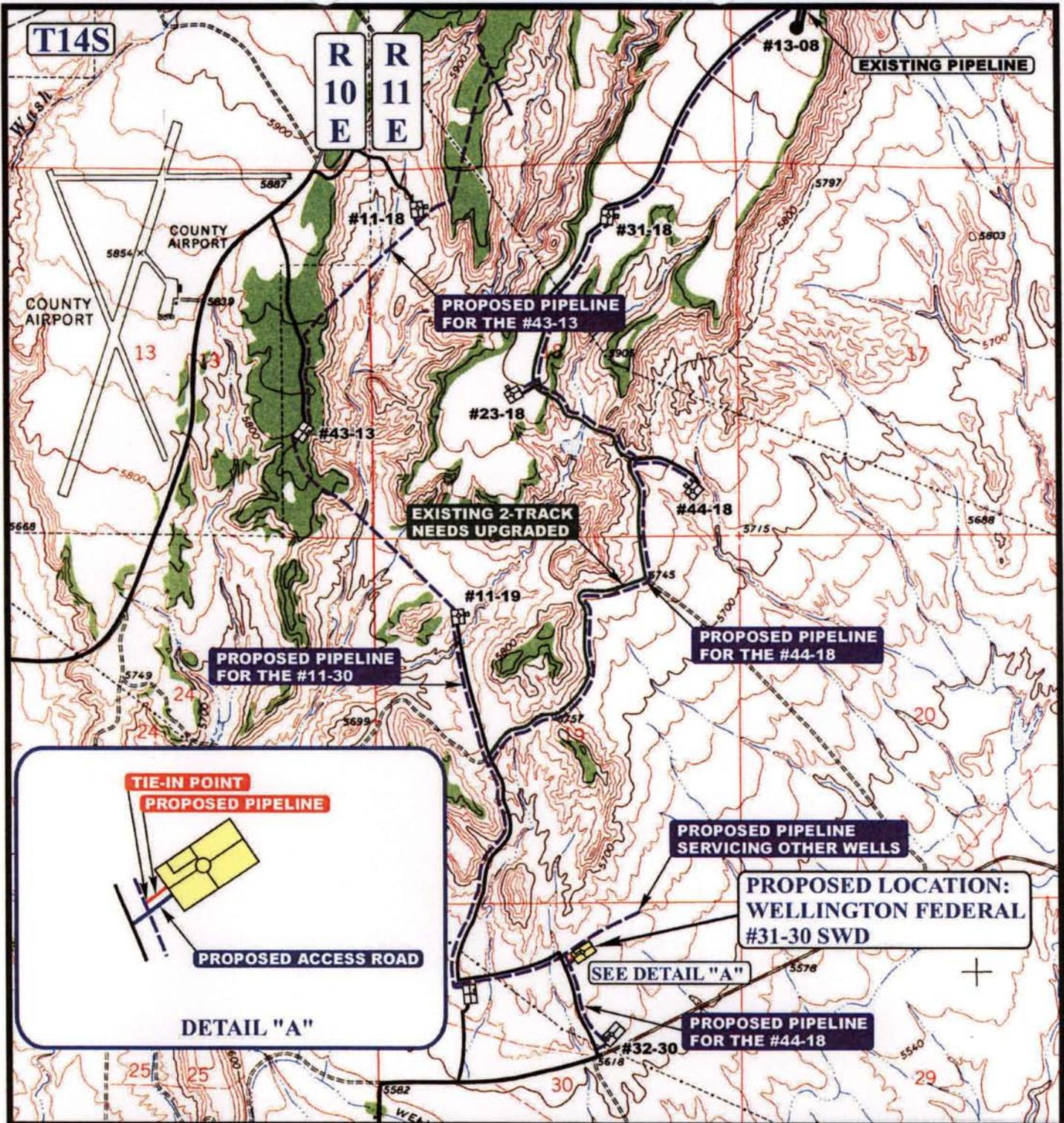
Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

01 08 08
 MONTH DAY YEAR

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





APPROXIMATE TOTAL PIPELINE DISTANCE = 140' +/-

LEGEND:

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



Kerr-McGee Oil & Gas Onshore LP
WELLINGTON FEDERAL #31-30 SWD
SECTION 30, T14S, R11E, S.L.B.&M.
731' FNL 2332' FEL



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

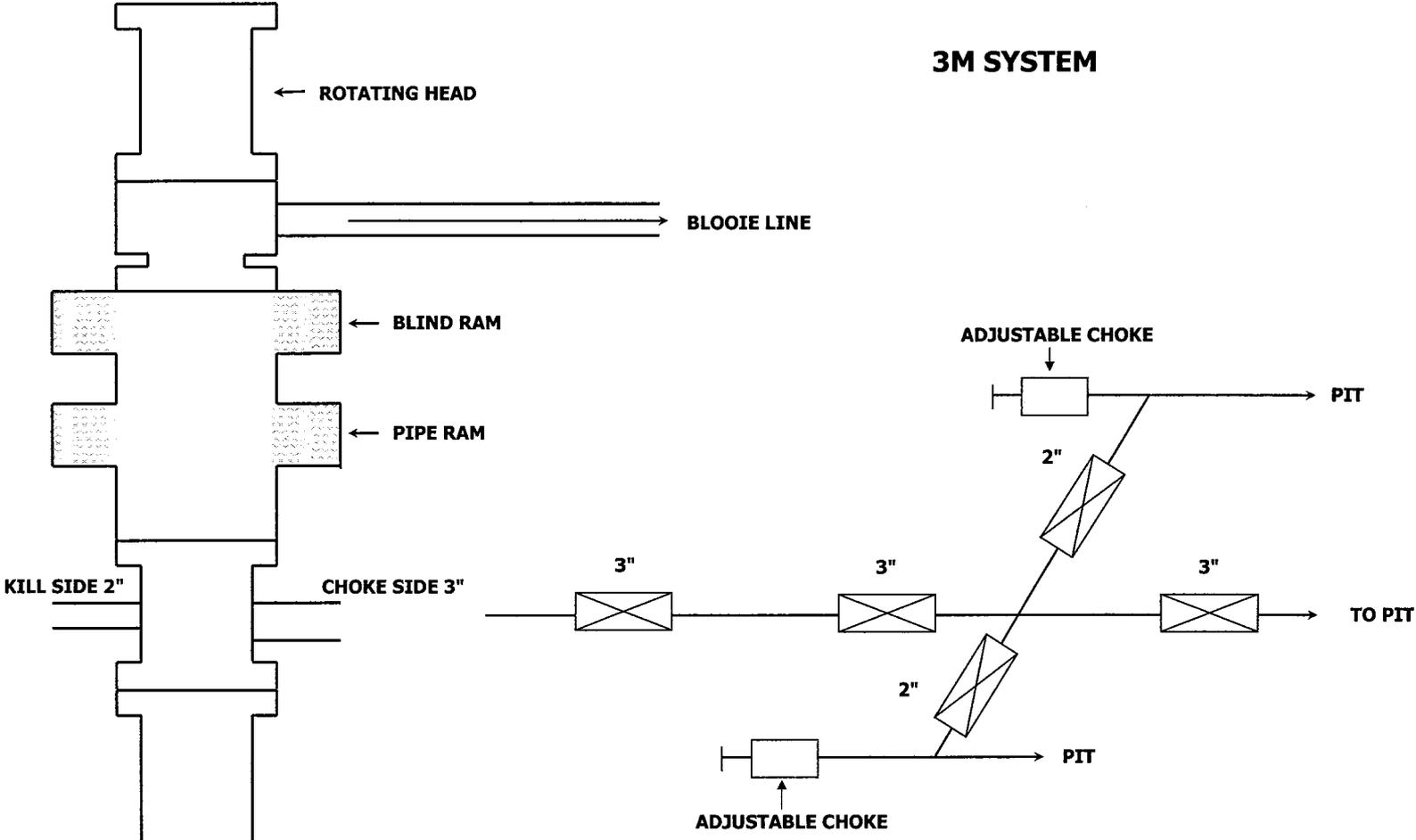
TOPOGRAPHIC
MAP

01 08 08
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00



3M SYSTEM



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/28/2008

API NO. ASSIGNED: 43-007-31375

WELL NAME: WELLINGTON FED 31-30 SWD
 OPERATOR: KERR-MCGEE OIL & GAS (N2995)
 CONTACT: DEBBY BLACK

PHONE NUMBER: 720-929-6000

PROPOSED LOCATION:

NWNE 30 140S 110E
 SURFACE: 0731 FNL 2332 FEL
 BOTTOM: 0731 FNL 2332 FEL
 COUNTY: CARBON
 LATITUDE: 39.58415 LONGITUDE: -110.7287
 UTM SURF EASTINGS: 523299 NORTHINGS: 4381429
 FIELD NAME: UNDESIGNATED (2)

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

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU080565
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WINGT
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. RLB005238)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. AIR DRILLE)
- 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: _____
- Eff Date: _____
- Siting: _____
- R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____

1- Federal Approval
2 Spacing Slip

T14S R10E

T14S R11E

24

19

HELPER FIELD

WELLINGTON
FED 41-25 SWD
⊙

WELLINGTON
FED 31-30 SWD
⊙

25

30

36

31

CITIES SERVICE
14 STRAT
◇

OPERATOR: KERR MCGEE O&G (N2995)

SEC: 30 T.14S R. 11E

FIELD: UNDESIGNATED (002)

COUNTY: CARBON

SPACING: R649-3-3 / EXCEPTION LOCATION



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



PREPARED BY: DIANA MASON
DATE: 1-APRIL-2008

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



Kerr-McGee Oil & Gas Onshore, L. P.
1099 18th Street
Denver, CO 80202
720-929-6000

April 23, 2008

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, UT 84114-5801

Attention: Brad Hill

RE: Exception Location – Rule R649-3-3
Wellington Federal 31-30 SWD
NWNE Section 30: T14S-R11E
Carbon County, Utah

Dear Mr. Hill:

In reference to Utah Oil and Gas Conservation Rule R649-3-3, the **Wellington Federal 31-30 SWD, API 43-007-31375** is an exception location due to topography. There are no additional lease owners within 460' of the proposed location.

I thank you in advance for your consideration and cooperation. If you have any questions concerning this matter, please contact the undersigned.

Sincerely,
KERR-McGEE OIL & GAS ONSHORE, L. P.
A wholly-owned subsidiary of Anadarko Petroleum Corporation

A handwritten signature in cursive script that reads 'Debby J. Black'.

Debby J. Black
Staff Regulatory Analyst
720-929-6472
Debby.Black@anadarko.com

RECEIVED

APR 24 2008

DIV. OF OIL, GAS & MINING



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

April 24, 2008

Kerr-McGee Oil & Gas Onshore, LP
1099 18th St.
Denver, CO 80202

Re: Wellington Federal 31-30 SWD Well, 731' FNL, 2332' FEL, NW NE, Sec. 30,
T. 14 South, R. 11 East, Carbon 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.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby 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 43-007-31375.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Carbon County Assessor
Bureau of Land Management, Moab Office

Operator: Kerr-McGee Oil & Gas Onshore, LP
Well Name & Number Wellington Federal 31-30 SWD
API Number: 43-007-31375
Lease: UTU080565

Location: NW NE Sec. 30 T. 14 South R. 11 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.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

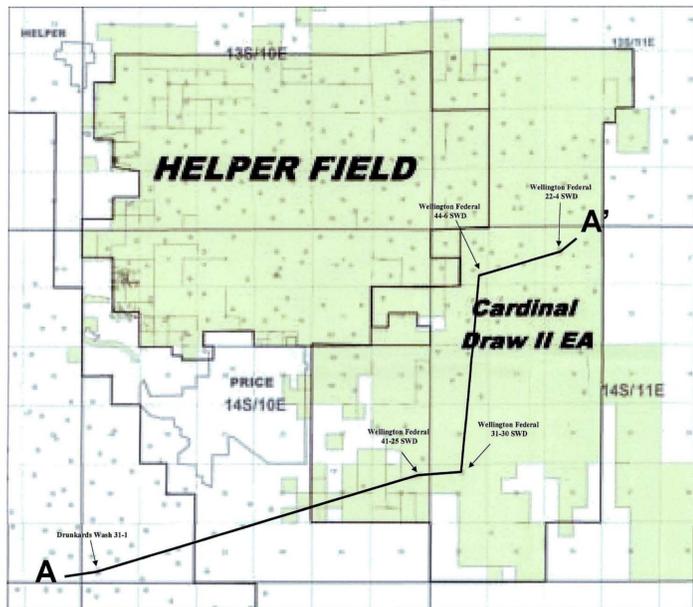
From: Brad Hill
To: Chris Kierst
Date: 04/24/2008 3:11 PM
Subject: Kerr McGee Disposal wells

You can start looking at the Kerr McGee applications now. I just approved the APDs and you can notice them if they look complete except for the drilling and CBLs and such. They can now get UIC #s and put the initial info in RBDMS. The API #s are 43-007-31375 and 43-007-31374.

Stratigraphic Cross Section Flattened on Top Carmel

Carbon County, Utah

Location Map



Top Navajo Structure Map

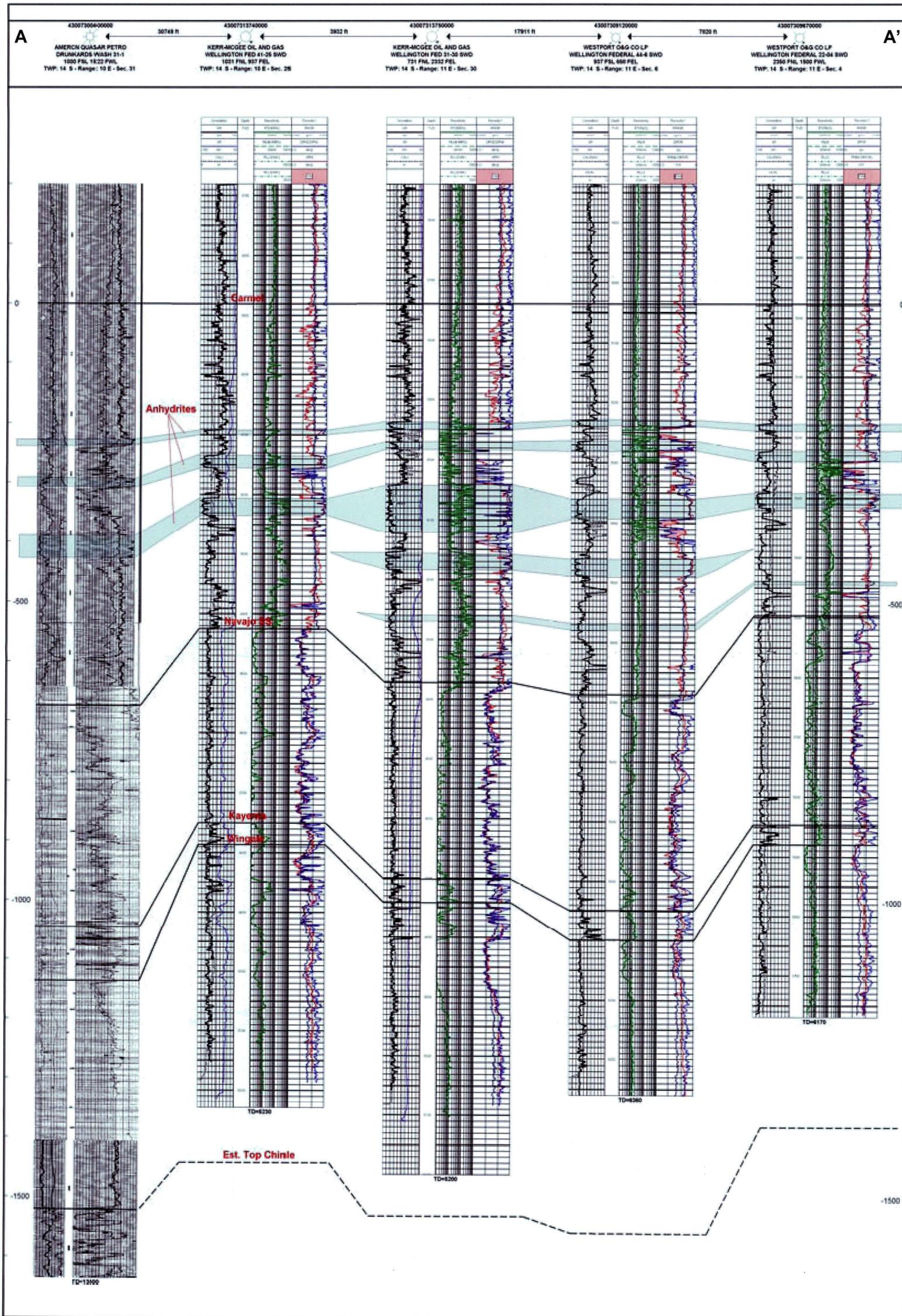
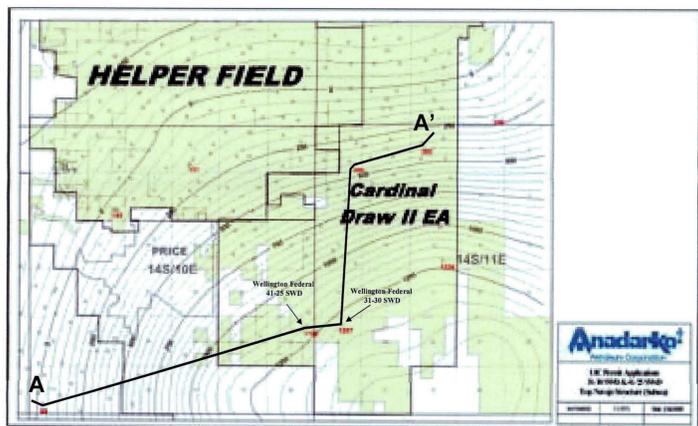
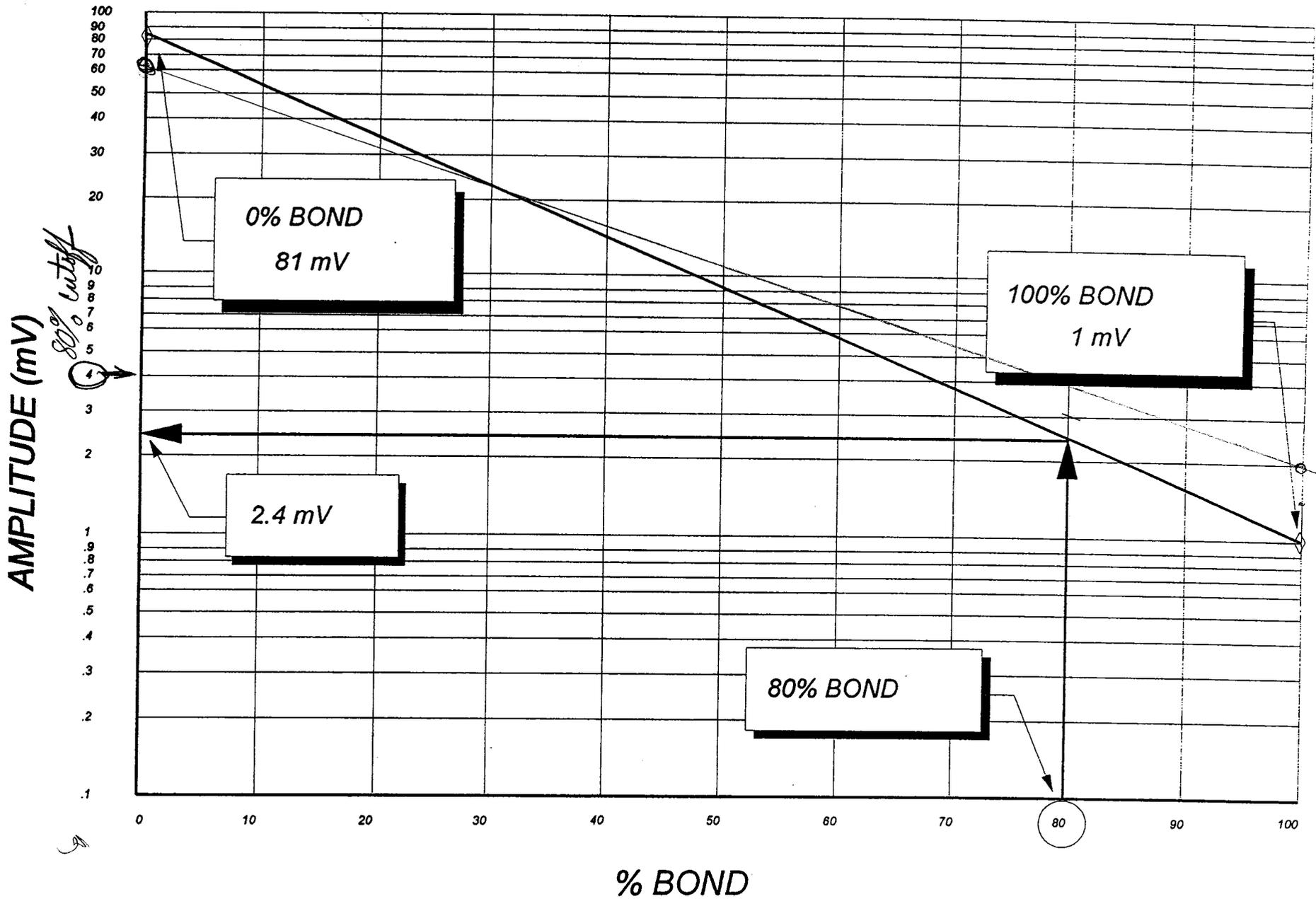


TABLE 2 - TRAVEL TIMES AND AMPLITUDES FOR FREE PIPE
(3 FT RECEIVER)

CASING SIZE (in)	CASING WEIGHT (lb/ft)	TRAVEL TIME (μ s)		AMPLITUDE (mV)
		1-11/16" TOOL	3-5/8" TOOL	
4-1/2	9.5	252	233	81
	11.6	250	232	81
	13.5	249	230	81
5	15.0	257	238	76
	18.0	255	236	76
	20.3	253	235	76
5-1/2	15.5	266	248	72
	17.0	265	247	72
	20.0	264	245	72
	23.0	262	243	72
7	23.0	291	271	62
	26.0	289	270	62
	29.0	288	268	62
	32.0	286	267	62
	35.0	284	265	62
	38.0	283	264	62
7-5/8	26.4	301	281	59
	29.7	299	280	59
	33.7	297	278	59
	39.0	295	276	59
9-5/8	40.0	333	313	51
	43.5	332	311	51
	47.0	330	310	51
	53.5	328	309	51
10-3/4	40.5	354	333	48
	45.5	352	332	48
	51.0	350	330	48
	55.5	349	328	48





Free Pipe = 60 mV

Wellington Fed. 31-30

4300731375

7" Prod. Csg. J55/237#

~111' acceptable 80% Bond cement

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

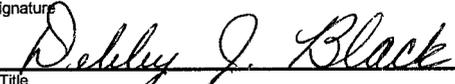
FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. Lease Serial No. UT0080565		6. If Indian, Allottee or Tribe Name N/A	
7. If Unit or CA Agreement, Name and No. N/A		8. Lease Name and Well No. Wellington Federal 31-30 SWD	
9. API Well No. 4300731375		10. Field and Pool, or Exploratory undesignated / Navajo-Wingate	
11. Sec., T., R., M., or Blk. and Survey or Area Sec. 30 T14S-R11E		12. County or parish Carbon County	
13. State UT		14. Distance in miles and direction from nearest town or post office. * Approximately 5.6 miles from Price, Utah	
15. Distance from proposed location to nearest property or lease line, ft. (Also nearest Drig, unit line, if any) Unit= N/A Lease= 731' FNL		16. No. of acres in lease 1,081.110 ac.	
17. Spacing Unit dedicated to this well 160 acre		18. Distance from proposed location to nearest well, drilling, completed or applied for, on this lease, ft. Wellington Fed 31-30 SWD +/- 1200'	
19. Proposed depth 5173' TVD		20. BLM/BIA Bond No. on file BLM Bond: 32090000 WYB000201	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5645' Ungraded Ground Level		22. Approximate date work will start * Upon APD Approval	
23. Estimated duration 5 days drilling, 9 days completion		24. Attachments	

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

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | <ol style="list-style-type: none"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be required by the authorized officer. |
|--|---|

25. Signature 	Name (Printed/Typed) Debby J. Black (Debby.Black@Anadarko.com)	Date March 26, 2008
Title Staff Regulatory Analyst	720-929-6472 (Direct Line) 303-868-8485 (Cell)	
Approved by (Signature) /s/ Michael Stiewig	Name (Printed/Typed) Michael Stiewig	Date SEP 04 2008
Title ACTING FIELD MANAGER	Office PRICE FIELD OFFICE	

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 ATTACHED

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.

RECEIVED

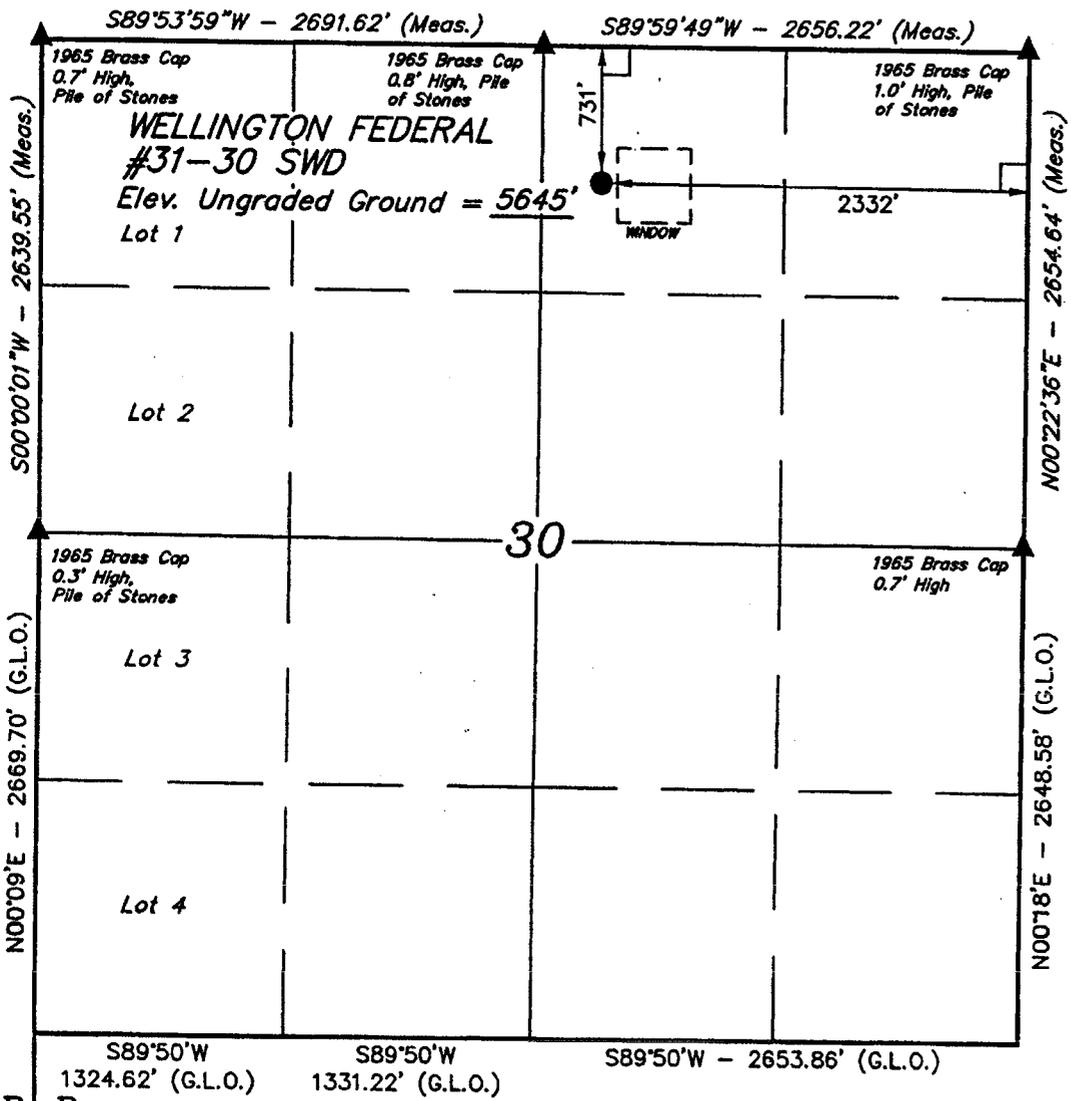
SEP 08 2008

NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING
UDOGM

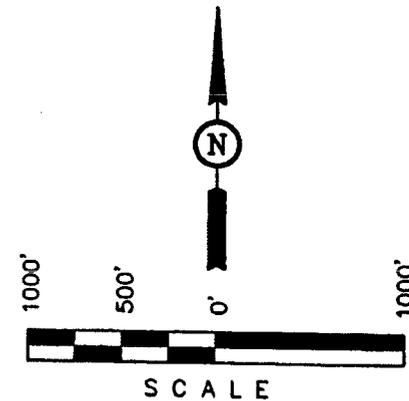
T14S, R11E, S.L.B.&M.

Kerr-McGee Oil & Gas Onshore LP
 Well location, WELLINGTON FEDERAL #31-30 SWD,
 located as shown in the NW 1/4 NE 1/4 of
 Section 30, T14S, R11E, S.L.B.&M., Carbon County,
 Utah.



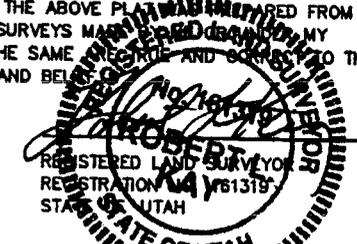
BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE NORTHWEST CORNER OF SECTION 7, T14S, R11E, S.L.B.&M. TAKEN FROM THE DEADMAN CANYON, QUADRANGLE, UTAH, CARBON COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5997 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.



BASIS OF BEARINGS

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

(NAD 83)
 LATITUDE = $39^{\circ}35'02.94''$ (39.584151)
 LONGITUDE = $110^{\circ}43'45.84''$ (110.729400)
 (NAD 27)
 LATITUDE = $39^{\circ}35'03.07''$ (39.584185)
 LONGITUDE = $110^{\circ}43'43.27''$ (110.728687)

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

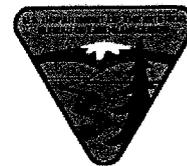
UNTAAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 01-04-08	DATE DRAWN: 01-07-08
PARTY B.B. C.P. M.D.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr-McGee Oil & Gas Onshore LP	



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

125 SOUTH 600 WEST PRICE, UT 84501 (435) 636-3600



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr-McGee Oil & Gas Onshore LP	Location:	NWNE-Sec. 30-T14S-R11E
Well No:	Wellington Federal 31-30 SWD	Lease No:	UTU-80565
API No:	43-007-31375	Agreement:	Undesignated/Ferron

Title	Name	Office Phone Number	Cell Phone Number
Acting Field Manager & Authorized Officer:	Michael Stiewig	(435) 636-3633	(435) 650-9135
Senior Petroleum Engineer:	Matthew Baker (Primary)	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	James Ashley (Alt.)	(435) 781-4470	(435) 828-7874
Petroleum Engineering Technician	Randy Knight (Primary)	(435) 636-3615	(435) 650-9143
Petroleum Engineering Technician	Walton Willis (Alt.)	(435) 636-3662	(435) 650-9140
NRS/Enviro Scientist:	Don Stephens (Alt.)	(435) 636-3608	

Fax: (435) 636-3657

**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 NRS)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS)	- 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 Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify 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)**

SITE SPECIFIC COAs:

- A pre-construction field meeting may be conducted prior to beginning any dirt work approved under this APD. The operator shall contact the BLM Authorized Officer Don Stephens @ 435-636-3608 at least 48-hours prior to beginning operations so that the meeting can be scheduled. The operator is responsible for having all contractors present (dirt contractors, drilling contractor, pipeline contractor, project oversight personnel, etc.) including the overall field operations superintendent, and for providing all contractors copies of the approved APD(s), project map and BLM Conditions of Approval pertinent to the work that each will be doing.
- The following appendices are attached for your reference. They are to be followed as conditions of approval:
 - Applicant-commented environmental protection measures 2.3
 - Appendix B Revegetation Plan
- KMG will measure gas production on the well pad unless permission is granted for measurement at another place.
- As required by the Price River MFP, if cultural resources are uncovered during surface-disturbing activities, KMG will suspend operations at the site and immediately contact the AO, who will arrange for a determination of eligibility in consultation with the SHPO, and, if necessary, recommend a recovery or avoidance plan.
- The Wellington Federal #11-12 well location contains two cultural sites the 42CB002313 and 42CB002314. Both sites shall be avoided by a minimum of 150 feet which may involve shifting the existing well center stake. Protective fencing shall be placed around portions of the site boundaries that face the proposed development in order to assist site avoidance during construction activities. The placing of the protective fencing shall be done under the supervision of a qualified archeologist.
- As required under 40 CFR 112.3(e), KMG will maintain a copy of the SPCC plan at each facility, if the facility is normally attended at least eight hours per day, or at the nearest field office if the facility is not so attended. KMG will also implement and adhere to SPCC plans in a manner such that any spill or accidental discharge of oil will be reported and remediated.
- All equipment and personnel used during drilling and construction activities will be restricted to only approved access roads.
- All permanent above-ground structures (e.g., production equipment, tanks, etc.) not subject to safety requirements will be painted to blend with the natural color of the landscape. The paint used will be a color which simulates "Standard Environmental Colors." All facilities will be painted the designated color at the time of installation.

- No oil, lubricants, or toxic substances may be drained onto the ground surface.
- KMG will not allow any open burning of garbage or refuse at well sites or other facilities.
- KMG will repair or replace to current BLM standards any fences, cattleguards, gates, drift fences, and natural barriers that are damaged as a result of the Proposed Action. Cattleguards will be used instead of gates for livestock control on most road ROWs.
- To minimize wildlife mortality due to vehicle collisions, KMG will advise project personnel regarding appropriate speed limits in the Project Area. Employees and contractors will be educated about anti-poaching laws.
- Please contact Don Stephens, Natural Resource Specialist, (435) 636-3608, Bureau of Land Management, Price Field Office, if there are any questions concerning these surface use COAs.

Standard Conditions of Approval

General

- KMG will provide georeferenced spatial data depicting as-built locations of all facilities, wells, roads, pipelines, power lines, and other related facilities to the BLM by November 1 of each year until completion of project construction activities has occurred
- KMG will inform their employees, contractors, and subcontractors about relevant Federal regulations intended to protect archaeological and cultural resources. All personnel will be informed that collecting artifacts, including arrowheads, is a violation of Federal law and that employees engaged in this activity will be subject to disciplinary action.

Construction

- Topsoil will be removed from constructed well locations including areas of cut and fill, and stockpile at the site. Topsoil will also be salvaged for use in reclamation on all other areas of surface disturbance (roads, pipelines, etc.). Clearly segregate topsoil from excess spoil material. Any topsoil stockpiled for one year or longer will be signed and stabilized with annual ryegrass or other suitable cover crop.
- The operator will not push soil material and overburden over side slopes or into drainages. All soil material disturbed will be placed in an area where it can be retrieved without creating additional undue surface disturbance and where it does not impede watershed and drainage flows.
- Construct the backslope no steeper than 1½:1, and construct the foreslope no steeper than 2:1, unless otherwise directed by the BLM Authorized Officer.
- Maintain a minimum 20-foot undisturbed vegetative border between toe-of-fill of pad and/or pit areas and the edge of adjacent drainages, unless otherwise directed by the BLM Authorized Officer.

- Reserve pits will be adequately fenced during and after drilling operations until the pit is reclaimed so as to effectively keep out wildlife and livestock. Adequate fencing, in lieu of more stringent requirements by the surface owner, is defined as follows: 1) Construction materials will consist of steel or wood posts. Three or four strand wire (smooth or barbed) fence or hog panel (16-foot length by 50-inch height) or plastic snow fence must be used with connectors such as fence staples, quick-connect clips, hog rings, hose clamps, twisted wire, etc. Electric fences will not be allowed; 2) Construction standards: Posts shall be firmly set in ground. If wire is used, it must be taut and evenly spaced, from ground level to top wire, to effectively keep out animals. Hog panels must be tied securely into posts and one another using fence staples, clamps, etc. Plastic snow fencing must be taut and sturdy. Fence must be at least 2-feet from edge of pit. 3 sides fenced before beginning drilling, the fourth side fenced immediately upon completion of drilling and prior to rig release. Fence must be left up and maintained in adequate condition until pit is closed.
- The reserve pit will be oriented to prevent collection of surface runoff. After the drilling rig is removed, the operator may need to construct a trench on the uphill side of the reserve pit to divert surface drainage around it. If constructed, the trench will be left intact until the pit is closed.
- The reserve pit will be lined with an impermeable liner if permeable subsurface material is encountered. An impermeable liner is any liner having a permeability less than 10^{-7} cm/sec. The liner will be installed so that it will not leak and will be chemically compatible with all substances that may be put in the pit. Liners made of any man-made synthetic material will be of sufficient strength and thickness to withstand normal installation and pit use. In gravelly or rocky soils, a suitable bedding material such as sand will be used prior to installing the liner.
- Culverts will be placed on channel bottoms on firm, uniform beds, which have been shaped to accept them, and aligned parallel to the channel to minimize erosion. Backfill will be thoroughly compacted.
- The minimum diameter for culverts will be 18 inches. However, all culverts will be appropriately sized in accordance with standards in BLM Manual 9113.
- Pipeline construction shall not block nor change the natural course of any drainage. Pipelines shall cross perpendicular to drainages. Pipelines shall not be run parallel in drainage bottoms. Suspended pipelines shall provide adequate clearance for maximum runoff.
- Pipeline trenches shall be compacted during backfilling. Pipeline trenches shall be routinely inspected and maintained to ensure proper settling, stabilization and reclamation.
- The operator shall submit a Sundry Notice (Form 3160-5) to BLM for approval prior to construction of any new surface disturbing activities that are not specifically addressed in the approved APD.
- Surface disturbance will be limited to the approved location and access routes.

- No surface-disturbing activities will occur during muddy and wet periods (e.g., when soils are saturated and excessive rutting of more than four inches with multiple passes could occur).
- The edges of well pads will be feathered to blend with the surrounding landscape.
- Removal and disturbance of vegetation will be kept to a minimum through construction site management (e.g., using previously disturbed areas and existing easements where feasible, placing pipelines adjacent to roads, limiting well pad size, etc.).
- During the construction phase of the project, KMG will implement an intensive reclamation and weed control program after each segment of project completion. KMG will reseed all portions of wells pads and the ROW not utilized for the operational phase of the project. Post-construction seeding application will continue until determined successful by the BLM. Weed control will be conducted through an Approved Pesticide Use and Weed Control Plan from the AO.
- To reduce the spread or introduction of noxious and invasive weed species into the Project Area via project-related vehicles and equipment, KMG and its contractors will power-wash all construction equipment prior to the entering the Project Area.
- Areas used for spoil storage will be stripped of topsoil before spoil placement.
- Appropriate erosion control and revegetation measures will be employed. In areas with unstable soils where seeding alone may not adequately control erosion, grading will be used to minimize slopes and water bars will be installed on disturbed slopes. Erosion control efforts will be monitored by KMG and necessary modifications would be made to control erosion.
- Sufficient topsoil or other suitable materials to facilitate revegetation will be segregated from subsoils during all construction operations requiring excavation and will be returned to the surface upon completion of operations. Soils compacted during construction will be ripped and tilled as necessary prior to reseeding. Cut and fill sections on all roads and along pipelines will be revegetated with native species.
- During the activities of road maintenance, new road construction or the construction of well pads, if any standing live or dead trees are damaged, cut down or knocked over by grading or construction equipment, actions would be taken to remove the vegetation from the road or pad edge. These materials would distributed over the reclaimed areas as directed by BLM.

Operations/Maintenance

- Rat and mouse holes shall be filled and compacted from the bottom to the top immediately upon release of the drilling rig from the location.
- Hydrocarbons shall be put in test tanks on location during completion work. Produced water will be put in the reserve pit during completion work per Onshore Order #7.

- The only fluids/waste materials which are authorized to go into the reserve pit are RCRA exempt exploration and production wastes. These include drilling muds and cuttings, rigwash, and excess cement and certain completion & stimulation fluids defined by EPA as exempt. It does not include drilling rig waste, such as spent hydraulic fluids, used engine oil, used oil filter, empty cement, drilling mud, or other product sacks, empty paint, pipe dope, chemical or other product containers, and excess chemicals or chemical rinsate. Any evidence of non-exempt wastes being put into the reserve pit may result in the BLM Authorized Officer requiring specific testing and closure requirements.
- If this well is drilled during the fire season (June-October), the operator shall institute all necessary precautions to ensure that fire hazard is minimized, including but not limited to mowing vegetation on the access route(s) and well location(s), keeping fire fighting equipment readily available when drilling, etc.

Dry Hole/Reclamation

- All disturbed lands associated with this project, including the pipelines, access roads, etc. will be expediently reclaimed and reseeded in accordance with the surface use plan and any pertinent site-specific COAs.
- The Seed Mixtures and procedures outline in Appendix B Revegetation Plan of the Cardinal Draw II Coal Bed Methane Project EA (attached) shall be used for reclamation.
- Disturbed lands will be re-contoured back to conform with existing undisturbed topography. No depressions will be left that trap water or form ponds.
- Reserve pits will be closed as soon as possible, unless the BLM Authorized Officer gives an extension. Squeezing of pit fluids and cuttings is prohibited. Pits must be dry of fluids or they must be removed via vac-truck or other environmentally acceptable method prior to backfilling, re-contouring and replacement of topsoil. Mud and cuttings left in pit must be buried at least 3-feet below re-contoured grade. The operator will be responsible for re-contouring any subsidence areas that develop from closing a pit before it is sufficiently dry.
- Before the location has been reshaped and prior to redistributing the topsoil, the operator will rip or scarify the drilling platform and access road on the contour, to a depth of at least 12 inches. The rippers are to be no farther than 24 inches apart.
- Distribute the topsoil evenly over the entire location and other disturbed areas. Prepare the seedbed by disking to a depth of 4-to-6 inches following the contour.
- Phased reclamation plans will be submitted to BLM for approval prior to individual POD facility abandonment via a Notice of Intent (NOI) Sundry Notice. Individual facilities, such as well locations, pipelines, discharge points, impoundments, etc. need to be addressed in these plans as they are no longer needed. Individual items that will need to be addressed in reclamation plans include:

1. Pit closure

2. Configuration of reshaped topography, drainage systems, and other surface manipulations
 3. Waste disposal
 4. Revegetation methods, including specific seed mix (pounds pure live seed/acre) and soil treatments (seedbed preparation, fertilization, mulching, etc.). On private surface, the landowner should be consulted for the specific seed mix.
 5. Other practices that will be used to reclaim and stabilize all disturbed areas, such as water bars, erosion fabric, hydro-mulching, etc.
 6. An estimate of the timetables for beginning and completing various reclamation operations relative to weather and local land uses.
 7. Methods and measures that will be used to control noxious weeds, addressing both ingress and egress to the individual well or POD.
 8. Decommissioning/removal of all surface facilities.
- A Notice of Intent to Abandon and a Subsequent Report of Abandonment must be submitted for abandonment approval.
 - For performance bond release approval, a Final Abandonment Notice (with a surface owner release letter on split-estate) must be submitted prior to a final abandonment evaluation by BLM.
 - Soil fertility testing and the addition of soil amendments may be required to stabilize some disturbed lands.
 - Any mulch utilized for reclamation needs to be certified weed free.
 - Waterbars are to be constructed at least one (1) foot deep, on the contour with approximately two (2) feet of drop per 100 feet of waterbar to ensure drainage, and extended into established vegetation. All waterbars are to be constructed with the berm on the downhill side to prevent the soft material from silting in the trench. The initial waterbar should be constructed at the top of the backslope. Subsequent waterbars should follow the following general spacing guidelines:

Slope (percent)	Spacing Interval (feet)
≤ 2	200
2 – 4	100
4 – 5	75
≥ 5	50

Producing Well

All internal combustion equipment will be kept in good working order.

- Landscape those areas not required for production to the surrounding topography as soon as possible.

- Reduce the backslope to 2:1 and the foreslope to 3:1, unless otherwise directed by the BLM Authorized Officer. Reduce slopes by pulling fill material up from foreslope into the toe of cut slopes.
- Production facilities (including dikes) must be placed on the cut portion of the location and a minimum of 15 feet from the toe of the back cut unless otherwise approved by the BLM Authorized Officer.
- Any spilled or leaked oil, produced water or treatment chemicals must be reported in accordance with NTL-3A and immediately cleaned up in accordance with BLM requirements. This includes clean-up and proper disposition of soils contaminated as a result of such spills/leaks.
- Distribute stockpiled topsoil evenly over those areas not required for production and reseed as recommended.
- Upgrade and maintain access roads and drainage control (e.g., culverts, drainage ditches, ditching, crowning, surfacing, etc.) as necessary and as directed by the BLM Authorized Officer to prevent soil erosion and accommodate safe, environmentally-sound access.
- Prior to construction of production facilities not specifically addressed in the APD, the operator shall submit a Sundry Notice to the BLM Authorized Officer for approval.
- If not already required prior to constructing and drilling the well location, the operator shall immediately upgrade the entire access road to BLM standards (including topsoiling, crowning, ditching, drainage culverts, surfacing, etc.) to ensure safe, environmentally-sound, year-round access. This requirement does not supercede or apply where specific road requirements are addressed in the APD/POD surface use plan (e.g., two track road, spot upgrade, etc.)
- Waterbars shall be installed on all reclaimed pipeline corridors per the guidelines.

Roads and Pipelines

- No road grades in excess of 15 percent will occur without written permission of the AO.
- Roads constructed on BLM lands shall be constructed to allow for drainage and erosion control. The operator is responsible for maintenance of all roads authorized through the lease or right-of-way. Construction and maintenance shall comply with BLM System Road Standards as described in BLM Manual Section 9113 and the BLM Gold Book standards, except as modified by BLM. Maintenance may include but is not limited to grading, applying gravel, snow removal, ditch cleaning, and headcut restoration/prevention.
- Topsoil from access roads and pipelines are to be wind rowed along the uphill side of the road or stored in an approved manner. When the road and pipeline is rehabilitated, this soil will then be used as a top coating for the seed bed.
- The operator shall provide an inspector under the direction of a registered professional engineer (PE) at all times during road construction. A PE shall certify (statement with PE stamp) that the road was constructed to the required Bureau of Land Management (BLM) road standards.

- Erosion-control structures such as water bars, diversion channels, and terraces will be constructed to divert water and reduce soil erosion on the disturbed area. Road ditch turnouts shall be equipped with energy dissipaters as needed to avoid erosion. Where roads interrupt overland sheet-flow and convert this runoff to channel flow, ditch turnouts shall be designed to reconvert channel flow to sheet flow. Rock energy dissipaters and gravel dispersion fans may be used, or any other design which would accomplish the desired reconversion of flow regime. As necessary cut banks, road drainages, and road crossings shall be armored or otherwise engineered to prevent headcutting

Health and Safety

- In accordance with 29 CFR 1910.1200, a Material Safety Data Sheet (MSDS) for every chemical or hazardous material brought on-site will be kept on file in KMG's field office.
- KMG will transport and/or dispose of any hazardous wastes, as defined by the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, in accordance with all applicable Federal, State, and local regulations.
- All storage tanks that contain produced water, or other fluids which may constitute a hazard to public health or safety, will be surrounded by a secondary means of containment for the entire contents of the tank, plus freeboard for precipitation, or to contain 110 percent of the capacity of the tank. The appropriate containment and/or diversionary structures or equipment, including walls and floor, will be constructed so that any discharge from a primary containment system, such as a tank or pipe, will not drain, infiltrate, or otherwise escape to groundwater or surface waters before cleanup is completed. A liner shall be used when the ground is permeable and would allow filtration of fluid to the subsurface strata.
- Notice of any spill or leakage, as defined in BLM NTL 3A, will be immediately reported by KMG to the AO and to other Federal and State officials as required by law. Oral notice will be given as soon as possible, but within no more than 24 hours, and those oral notices will be confirmed in writing within 72 hours of any such occurrence.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- The proposed 2M BOPE is adequate for anticipated conditions. Any equipment rated higher than 2M need only be tested to 2M standards. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas order No. 2.
- Concurrent approval from the State of Utah Division of Oil, Gas and Mining (DOG M) is required before conducting any surface disturbing activities.
- When drilling with air, the requirements of Onshore Oil & Gas Order No. 2, Part III.E *Special Drilling Operations*, shall apply. The bleed line discharge point is to be a minimum of 80 feet from the wellhead.
- Any water zones encountered below the surface casing shoe shall be reported to BLM and shall be isolated with cement.
- A cement bond log (CBL) shall be run on the intermediate casing to ensure that cementing objectives are met. The log shall be submitted to BLM.
- This well is approved specifically for water disposal purposes. The well was not designed as an oil and gas production well, and has not been reviewed or approved as an application for a production well.

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 Price Field Office within 24 hours of spudding.
- Notify Price Field Office Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- If air drilling operations are utilized, the requirements of Onshore Oil & Gas Order No. 2, Part III.E *Special Drilling Operations*, shall be implemented.
- 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 Price 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 Price 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 Price BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Price 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.
- The use of a flow conditioner in lieu of straightening vanes in the gas meter run cannot be approved with the information provided. This proposal is not consistent with the provisions of Onshore Oil & Gas Order No. 5, and as such, can only be considered for approval as a "variance" from Order No. 5. A written request for variance would identify the Order No. 5 requirement(s) from which the variance is being requested, and it would include supporting justification as to how the alternate method of measurement would meet or exceed the minimum standards established in Order No. 5. A variance request for the use of a flow conditioner would also include the make, model, dimensions, and description of use for the specific flow conditioner being proposed.
- **Please submit a copy of all other logs run on this well to the BLM Price Field Office.**
- 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 Price 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 Price 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 Price Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Price 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, Price Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Price Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Price 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 Price 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 Price 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 Price 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 Price Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Price 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.

2.3 BLM Requirements and Applicant-committed Protection Measures

For this project KMG has voluntarily agreed to use and comply with the following protective measures and procedures to avoid or lessen impacts to resources or other land uses, after consultation with BLM regarding agency requirements. These measures and procedures would be applied on privately owned surface unless the private surface owners involved specifically require alternate actions while still in compliance with applicable laws and regulations. An exception to a protective measure or design feature may be approved, by the authorized officer on a case-by-case basis when deemed appropriate by the BLM. Exceptions could be approved in the event a site-specific analysis concludes that the resource or land use that the measure was intended to mitigate is not present or would not be extensively affected in the absence of the mitigation measure or design feature, should the authorized officer deem that the exception is appropriate. In order to reduce potential impacts to specific resources, KMG has committed to the following environmental protection measures as part of the Proposed Action:

Pre-construction Planning, Design, and Compliance Measures

1. KMG would designate a qualified representative to serve as Compliance Coordinator. This person will be responsible for ensuring that all requirements of the APDs (including Conditions of Approval) and POD are followed.
2. KMG and the BLM would attend on-site inspections of each proposed and staked facility site (such as drill locations and other facilities), new access road, access road upgrades (two-track roads), and pipeline alignment projects to develop site-specific recommendations and mitigation measures.
3. New roads would be constructed and existing roads maintained in the project area in accordance with standards in the BLM Manual 9113 and applicable regulations for resource roads and construction details outlined in the Proposed Action and Conditions of Approval. These standards would be followed on BLM surface ownership lands.
4. Prior to construction, KMG would submit an APD package in accordance with Onshore Order #1 to the BLM. This package would contain individual APDs for each drill site, as well as schematics of facilities, and ROW applications for pipelines, utilities, and access roads. APDs submitted by KMG would show the layout of the drill pad over the existing topography, the dimensions of the pad, cross sections of the cuts and fills (when required), the location and dimensions of reserve pits, locations of access roads, and plans for interim and final reclamation.
5. KMG would slope-stake construction when required by the BLM (for example, in steep or unstable slopes) and receive approval from the BLM before construction begins.
6. BLM would require roads to be constructed with a 0.3- to 0.5-foot crown, and ditched. The topsoil would be graded over the cut slope so no berm is left at the top of the cut slope.
7. BLM would require that culverts in roads be covered with a minimum of 12 inches of fill or one-half the diameter of the pipe, whichever is greater. The inlet and outlet will be set flush with existing ground and lined up in the center of the draw. Before the area is backfilled, the bottom of the pipe will be bedded on stable ground that does not contain expansive or clay soils, protruding rocks that would damage the pipe, or unevenly sized material that would not form a good seat for the pipe. The site would be backfilled with unfrozen material and rocks no larger than 2 inches in diameter. Care would be exercised to thoroughly compact the backfill under the haunches of the conduit. The backfill would be brought up evenly in 6-inch layers on both sides of the conduit.
8. Additional culverts would be installed in the existing access road as needed or as directed by BLM.

9. The access roads would be surfaced with an appropriate grade of aggregate or gravel to a depth of 2 to 4 inches before the drilling equipment or rig is moved onto the pad.
10. BLM would require that access roads be maintained in a safe and usable condition. A regular maintenance program would include, but is not limited to, blading, ditching, installing or cleaning culverts, and surfacing.
11. The written approval of the authorized officer would be obtained before snow removal outside the new and existing roadways is undertaken. If approval is given, equipment used for snow removal operations outside the road ditches would be equipped with shoes to keep the blade off the ground surface. Special precautions would be taken where the surface of the ground is uneven to ensure that equipment blades do not destroy the vegetation.
12. BLM would require that wing ditches be constructed, as necessary, to divert water from road ditches.
13. Trenches that are open for the installation of pipelines would have plugs placed no more than 1,000 feet apart to allow livestock and wildlife to cross the trench or walk out of it, if needed. Placement of plugs would be determined in consultation with BLM and any affected landowner.
14. Procedures would be implemented to prevent livestock or wildlife from falling into open excavations. Procedures could include temporary covers, fencing, or other means acceptable to BLM and any affected landowner.
15. On the well pad locations, BMPs to minimize erosion would include the use of ditches, water bars and detention basins. These actions would be implemented in accordance with the Utah Pollutant Discharge Elimination System (UPDES) storm water permit program and the Utah Non-point Source Management Plan. Disturbed areas resulting from all construction would be revegetated as described in **Appendix B**.
16. KMG would provide as-built maps of surface disturbing activities following completion of construction activities, or annually as needed.

Resource-specific Requirements

KMG propose to implement resource-specific protection measures, procedures, and BLM management requirements on public lands. These measures are outlined below and in the various resource sections.

Geology and Minerals

Protection measures presented in Section 2.3.2.3, Water Resources, would avoid or minimize many of the potential impacts to surface mineral resources. BLM and UDOGM policies on casing and cementing would protect subsurface mineral resources from adverse impacts.

Soils

1. KMG would reduce the area of disturbance to the absolute minimum necessary for construction and production operations while providing for the safety of the operation.
2. Where feasible, KMG would locate pipelines immediately adjacent to roads to avoid creating separate areas of disturbance and to reduce the total area of disturbance.
3. KMG would avoid using frozen or saturated soils as construction material.
4. KMG would minimize construction in areas of steep slopes.
5. Cut slopes would be designed in a manner that would retain topsoil, and facilitate use of surface treatment such as mulch and subsequent revegetation.
6. KMG would selectively strip and salvage topsoil or the best suitable medium for plant growth from all disturbed areas. Topsoil would be removed and conserved to

- a minimum depth of 6 inches and a maximum of 12 inches from all drill locations, unless otherwise agreed by the BLM and the operator.
7. Topsoil stockpiles would be respread upon completion of construction activities or when such areas are no longer needed for production efforts.
 8. Where possible, disturbance to vegetated cuts and fills would be minimized on existing improved roads.
 9. KMG would install runoff and erosion control measures such as water bars, berms, and interceptor ditches if needed.
 10. KMG would install culverts for ephemeral and intermittent drainage crossings. In addition, drainage crossing structures would be designed to carry the 25-year discharge event, or as otherwise directed by the BLM.
 11. Layout of the access roads may require minor variations in routing to avoid steep slopes adjacent to ephemeral or intermittent drainage channels. Where possible, KMG would preserve a 100-foot-wide buffer of natural vegetation (not including wetland vegetation) between construction and ephemeral and intermittent channels.
 12. KMG would include adequate drainage control devices and measures in the design of roads (for example, berms and drainage ditches, diversion ditches, cross drains, culverts, out-sloping, and energy dissipaters). These devices and measures would be located at sufficient intervals and intensities to adequately control and direct surface runoff above, below, and within the road to avoid erosive, concentrated flows. In conjunction with surface runoff or drainage control measures, KMG would use erosion control devices and measures such as temporary barriers, ditch blocks, erosion stops, mattes, mulches, and vegetative covers. In addition, KMG would implement a revegetation program as soon as possible to reestablish the soil protection afforded by vegetation.
 13. Once an area is no longer needed for production, it will be reclaimed in accordance with BLM-approved reclamation guidelines. Once the project is complete, final reclamation will be conducted. The following measures would be implemented during final reclamation:
 - Rip or subsoil all surfaces to be re-contoured to a depth of 12 inches;
 - Restore topography to near pre-existing contours at the well sites, along access roads and pipelines, and other facilities sites;
 - Redistribute up to 6 inches of topsoil or suitable plant growth material, if available, over all disturbed surfaces;
 - Rip or subsoil all regarded surfaces to a depth of 12 to 14 inches to eliminate any compaction that may have occurred during final grading; and
 - Roughen the soil surface, apply fertilizer as required, seed, and mulch.
 14. KMG would avoid constructing well pads and roads, where possible, on steep, gullied or severely eroded, or low reclamation potential lands such as map units 9, 17, 35, 37, 92, and 93 (**Figure 3-1**).

Water Resources

Some measures identified in Section 2.3.2.2, Soils, for protection of soil resources, such as use of erosion and sedimentation controls during road and drill pad construction, also would protect water resources. The following additional measures would be implemented as part of the Proposed Action to protect water resources:

1. Well sites, access roads, and pipelines would not be constructed within 500 feet of surface water and riparian areas without BLM approval. Where possible, a 100-foot-wide buffer of natural vegetation (not including wetland vegetation) would be maintained between construction and ephemeral and intermittent channels.
2. New roads would be designed and constructed in accordance with BLM road standards, such as those found in BLM's 9113-Roads Manual. BMPs for erosion control and hydrologic protection would be implemented during the construction, operation and reclamation of the project facilities.

3. Access road routes would be adjusted if necessary to avoid steep slopes adjacent to ephemeral or intermittent drainage channels. Locations on steep slopes that require deep, nearly vertical cuts and steep fill slopes would be avoided where possible or appropriately mitigated.
4. The area of disturbance within drainage channels would be minimized. Road channel crossings would be designed to minimize changes in channel geometry and subsequent alterations in flow hydraulics. Channel crossings would be constructed during periods of no-flow or low-flow. Disturbed channel beds would be regraded to the original geometric configuration and contain the same or similar bed material. Pipeline channel crossings would be constructed with pipe buried a minimum of 4 to 6 feet below the channel bottom, as specified by BLM. All crossings or encroachments of waters of the U.S. would be coordinated with the U.S. Army Corps of Engineers.
5. All wells would be cased and cemented in accordance with Onshore Oil and Gas Order No. 2 to contain all fluids and protect groundwater during drilling and well completion.
6. Reserve pits would not be constructed in areas of shallow groundwater or in natural watercourses. Reserve pits would be constructed in cut rather than fill materials, and lined with an impermeable liner to prevent contamination of groundwater and soils and to conserve water. Sufficient freeboard would be maintained in all reserve pits to prevent overflow. If leakage is found outside the pit, drilling operations would be shut down until the problem is corrected.
7. Hydrostatic test water used in conjunction with pipeline testing, and all water used during construction or dust abatement would be purchased from Price City or extracted from sources with any necessary approval of the State of Utah. Hydrostatic test water would be injected into an authorized deep injection well, in compliance with all applicable requirements.
8. If required, KMG would develop and implement a Storm Water Pollution Prevention Plan per Utah Department of Environmental Quality (UDEQ) regulations. All required UDEQ permits would be in place before storm water is discharged during construction activities.
9. KMG would take strict precautions to prevent pipeline breaks and other potential accidental discharges of oil or hazardous chemicals into adjacent streams. An oil Spill Prevention, Control, and Countermeasure (SPCC) Plan would be developed in accordance with federal regulations if oil is stored onsite in sufficient quantities. Spills and leaks would be cleaned up to prevent pollution of surface water or groundwater.

Vegetation, Wetlands, and Noxious Weeds

1. KMG will follow the Weed Plan in **Appendix C** as approved by BLM.
2. KMG would evaluate all project facility sites for occurrence and distribution of waters of the U.S., special aquatic sites, and jurisdictional wetlands. All project facilities would be located outside these sensitive areas. If complete avoidance is not possible, KMG would minimize impacts through modification and minor relocations. KMG will comply with applicable regulations for any activities that involve dredge or fill or wetlands.
3. An approved Pesticide Use Proposal would be obtained before herbicides or other pesticides are applied on BLM surface ownership lands to control noxious weeds.
4. Once an area is no longer needed for production, it will be reclaimed in accordance with BLM-approved reclamation guidelines. Once the project is complete, final reclamation will be conducted.
5. Disturbed areas would be seeded and stabilized in accordance with BLM-approved reclamation guidelines.

6. Off-road driving relating to project activities would be restricted to the ROW corridors, well pads, and approved access roads. Signs would be used to identify approved and restricted (i.e., no access allowed) roads.
7. KMG would avoid all known individuals and/or populations of special status species within occupied habitat during surface disturbance activities. Avoidance measures may include, but are not limited to, well pad relocation or modification, road and pipeline re-routes, and species relocation (i.e., hand removal of individuals and/or populations within surface disturbance-related areas into adjacent suitable habitat). KMG would consult with the BLM for relocation of species.

Range Resources and Other Land Uses

1. KMG would coordinate with the affected livestock operators to ensure that livestock control structures remain functional (as directed by the livestock operator) during drilling and production operations, and to coordinate timing of activities planned.
2. When necessary, traffic control and speed limits would be used to limit potential conflicts.
3. In areas where fences are crossed by new road construction, cattle guards will be installed in place of gates.
4. KMG would maintain range improvements during the construction period. KMG would repair any range improvements to a functional condition that are damaged as a result of construction activities.

Wildlife, Fisheries, and Special Status Species

1. KMG would prohibit unnecessary off-site activities of operational personnel near the drill sites. KMG also would inform all project employees of applicable wildlife laws and the potential penalties associated with unlawful take and harassment.
2. KMG will not construct any facilities within crucial winter range for mule deer and elk during these dates December 1 to April 15 unless an exception, waiver or modification is authorized by the BLM.
3. In order to avoid collisions with big game, roads constructed within the project area would have a designed speed of 15 mph.
4. In the event that construction of the proposed facilities should occur during the raptor breeding season (February 1 through August 15), a raptor survey would be conducted, in coordination with the BLM and Utah Department of Water Resources (UDWR).
5. KMG would use BLM BMPs regarding raptor nest protection, which are BLM-specific recommendations for implementation of the U.S. Fish and Wildlife Service (USFWS), Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances. This generally includes a buffer around an active nest (e.g., 1.0 mile for bald eagle and peregrine falcon, 0.5 mile for golden eagle, ferruginous hawk, red-tailed hawk, and 0.25 mile for great-horned owl, prairie falcon, and burrowing owl). KMG would not operate inside these buffers unless an exception, waiver or modification is authorized by the BLM.
6. In coordination with the BLM and UDWR, raptor nests would be inventoried annually to evaluate potential nesting activity in areas where work may be occurring during the raptor nesting period from February 1 to August 15.
7. All pits and open cellars would be fenced for the protection of wildlife and livestock. Fencing would be in accordance with BLM specifications. Netting would be placed over all reserve or production pits to eliminate any hazard to migratory birds or other wildlife.
8. To protect nesting birds, removal of migratory bird habitat within the project area would be avoided between April 15 and August 1. Should removal of habitat be required during this period, KMG would coordinate with the BLM and UDWR to conduct breeding bird surveys in high value breeding habitat and implement

- appropriate mitigation, such as buffer zones around occupied nests (BLM-sensitive and Birds of Conservation Concern [BCC] species), as needed.
9. KMG would avoid leaving trenches open overnight. Where trenches cannot be back-filled immediately, escape ramps should be constructed at least every 90 meters (300 feet). Escape ramps can be short lateral trenches or wooden planks sloping to the surface. The slope should be less than 45 degrees (1:1).
 10. KMG would inspect trenches that have been left open overnight. Any animals discovered shall either be allowed to escape before activities resume or carefully removed from the trench and allowed to escape. A final inspection of the open trench segment shall also be made immediately prior to backfilling.
 11. KMG would keep trenching and back-filling crews close together, to minimize the amount of open trenches at any given time. Efforts will be made to minimize the length of open trench along the ROW.
 12. KMG would install soft ditch-plugs at known ungulate crossing sites, if pipeline trenching conflicts with spring or fall ungulate movement across pipeline construction area. During excavation of trenches, escape ramps consisting of loose earth deposited in the trench shall be placed to facilitate the escape of any wildlife species that may enter the excavations.
 13. KMG would not conduct surface disturbing activities between May 15 and June 15 in crucial pronghorn range unless an exception, waiver or modification is authorized by the BLM.
 14. Prior to the initiation of surface disturbance activities on federal sections (including workover and maintenance activities), applicable biological surveys would be conducted through areas of suitable habitat for sensitive species (i.e., federally listed species and BLM-sensitive species) during the appropriate season, as determined by the BLM. Additional mitigation measures would be determined during the APD onsite process.
 15. Prior to the initiation of surface disturbance activities on federal sections (including workover and maintenance activities), black-footed ferret clearance surveys would be conducted in active white-tailed prairie dog colonies that have a burrow density of eight burrows per acre or greater, and that would be directly disturbed by the Proposed Action. Additional mitigation measures would be determined during the APD onsite process.
 16. KMG would contribute funds in an amount not to exceed \$75,000 for the proposed Pinyon-juniper removal project located in Sections 22 and 23 of Township 13 South and Range 10 East in Carbon County, Utah.

Cultural Resources

1. A Class III inventory for cultural resources has been done for wells for which siting location has been determined. For future wells, and if the area of potential effect were to change, additional inventory would be required.
2. Avoidance is the preferred method for mitigating adverse effects to a property that is considered eligible for, or is already on, the National Register of Historic Places (NRHP).
3. Adverse effects to cultural or historical properties that cannot be avoided would be mitigated by preparing and implementing a cultural resources protection plan. Protection plans would be developed as needed for eligible sites that would be impacted.
4. If cultural resources are discovered at any time during construction, all construction would halt and BLM would be immediately notified. Work would not resume until BLM issues a Notice to Proceed.

Transportation

1. Existing roads, if any, would be used as collectors and local roads whenever possible. Standards for road design would be consistent with BLM Road Standards

Manual Section 9113. The proposed access roads would be constructed to the BLM standard for a local road.

2. All roads on public lands that are not required for routine operation and maintenance of producing wells, ancillary facilities, or field production would be permanently blocked, recontoured, reclaimed, and revegetated.
3. Areas with important resource values, steep slopes, and fragile soils would be avoided where possible in planning for new roads.
4. Permits are required from Carbon County for any access to or across a county road or for any pipeline that crosses a county road. These permits would be acquired before additional roads are built. Roads on private lands would be reclaimed in a like manner to those on public lands, depending on the desires of the landowner.
5. KMG would be responsible for preventive and corrective maintenance of roads in the project area throughout the duration of the project. Maintenance may include blading, surfacing, cleaning ditches and drainage facilities, abating dust, controlling noxious weeds, or other requirements as directed by the BLM or the Carbon County Road and Bridge Department.
6. Except in emergencies, access would be limited to drier conditions to prevent severe rutting of the road surface. No construction or routine maintenance activities would be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of 4 inches deep, the soil would be considered too wet to adequately support construction equipment. Culverts would be installed where needed to allow drainage in all draws and areas of natural drainage. Low water crossings would be used where applicable. Onsite reviews would be conducted with BLM personnel for approval of proposed access before any construction begins.

Health and Safety

1. Sanitation facilities installed on the drill sites, and any resident camps would be approved by the UDEQ.
2. To minimize undue exposure to hazardous situations, KMG would comply with all applicable rules and regulations (such as Onshore Orders and OSHA requirements) that would prevent the public from entering hazardous areas and would post warning signs to alert the public of truck traffic.
3. KMG would haul all garbage from the drill site to a state-approved sanitary landfill for disposal. In addition, KMG would collect and store any garbage or refuse on location in containers approved by the BLM until it can be transported.
4. During construction and when production operations begin, KMG would maintain an inventory of chemicals or hazardous substances for all items that may be at the site. KMG would institute a Hazard Communication Program for employees and would require subcontractors to establish programs in accordance with OSHA regulations at 29 CFR 1910.1200. These programs are designed to educate and protect employees and subcontractors with respect to any chemicals or hazardous substances that may be present in the work place. In addition, Material Safety Data Sheets would accompany every chemical or hazardous material that is brought on location and would become part of the file maintained by KMG. All employees would receive proper training in storage, handling, and disposal of hazardous substances.
5. SPCC plans would be written and implemented as necessary, in accordance with 40 CFR Part 112, to prevent discharge into navigable waters of the U.S.
6. If quantities that exceed 10,000 pounds or the threshold planning quantity as designated by the PFO are to be produced or stored in association with the project, chemical and hazardous materials would be inventoried and reported in accordance with the toxic release inventory requirements set forth in Title III of the SARA and codified at 40 CFR Part 335. The required Section 311 and 312 forms

- would be submitted at the specified times to the state and county emergency management coordinators and the local fire departments.
7. Any hazardous wastes, as defined by the Resource Conservation and Recovery Act, would be transported and disposed of in accordance with all applicable federal, state, and local regulations.
 8. All storage tanks and compressor facilities that are designed to contain oil, glycol, produced water, or other fluid that may constitute a hazard to public health or safety, must be surrounded by a secondary means of containment sufficient to contain 1.5 times the volume of the largest single tank within the containment area. The containment or diversionary structure must be constructed so that any discharge of oil, glycol, produced water, or other hazardous fluid from within the containment system does not drain, infiltrate, or otherwise escape to groundwater, surface water, or navigable waters before cleanup is completed.

Aesthetics

1. KMG will paint the building housing the pump skids at SWD well sites 41-25 and 31-30 so that they match the colors of nearby barns and farm buildings (a light/dark green combination in this case) and will paint the associated tanks a tan color that will blend in with the hills beyond. KMG will follow BLM BMPs and paint all other facilities using a BLM approved color to blend in with the surrounding environment. These actions will reduce the visual impact of these well sites.

Noise

1. KMG would muffle and maintain all motorized equipment according to manufacturer's specifications.
2. In any area of operations (such as a drill site or compressor station) where noise levels may exceed safe limits specified by OSHA, KMG would provide and require that employees use proper personal protective equipment.
3. The BLM will require that compressor engines located on public lands be enclosed in a building and located at least 600 feet away from sensitive receptors or sensitive resource areas to comply with these limits on noise levels.

Air Quality

1. KMG would adhere to all applicable ambient air quality standards, permit requirements (including preconstruction, testing, and operating permits), standards for motorized equipment, and other regulations, as required by the Utah Department of Air Quality (UDAQ).
2. KMG will not allow garbage or refuse to be burned at well locations or other facilities.
3. On federal land, KMG would immediately abate fugitive dust (by application of water, chemical dust suppressants, or other measures) when air quality is impaired, soil is lost, or safety concerns are noticed by KMG or identified by the BLM or the UDAQ. BLM would approve the control measure, location, and application rates. If watering is the approved control measure, the operator will obtain the water from state-approved sources in accordance with any applicable regulations.
4. KMG would follow manufacturers' specifications for the operation and maintenance of all facilities and vehicles to reduce emissions.
5. KMG would select the natural gas-fired compressor engines as appropriate to minimize potential emissions of nitrogen oxides (NO_x) and carbon monoxide (CO) at the new facilities.
6. KMG would follow UDAQ Best Available Control Technology (BACT) guidelines to minimize emissions.

Appendix B

Revegetation Plan For The Cardinal Draw II Coal Bed Methane Project

1.0 INTRODUCTION

Kerr-McGee Oil & Gas Onshore LP (KMG) proposes to develop coal bed methane resources within the Ferron coals and sands in Carbon County, Utah. KMG will implement the following revegetation plan to reclaim the proposed disturbances associated with the Cardinal Draw Coal Bed Methane Project. All disturbances proposed will be reclaimed including the well pads, salt-water disposal wells, and pipeline and utility corridors. All upgraded and newly constructed roads will be decommissioned and reclaimed except those the BLM or private landowner requests be kept open. Well pad and salt-water disposal well facilities will be dismantled and scrapped or moved to another site for use on future projects.

Revegetation activities at each disturbed site will begin as soon as possible given operational requirements. On all areas not needed for production, interim reclamation will be conducted as soon as possible after completion of construction to reduce the potential for erosion. This includes utility corridors and any portions of the well pads, salt-water disposal wells, and road travel surfaces disturbed during construction, but not needed during production. Interim reclamation and revegetation will be completed the first planting season following the conclusion of topsoil re-spreading and well pad grading.

Final reclamation and revegetation of the well pads, salt-water disposal wells, and road travel surfaces will be conducted the first planting season following project element decommissioning. All revegetation materials, methods, and techniques to be employed will be acceptable to the BLM and State of Utah.

2.0 RECLAMATION

KMG also plans to employ mechanical site stabilization measures at well pad sites and within road corridors as a part of this project. Both interim and final reclamation of individual facilities would involve three primary components. They are backfilling, grading, redistributing soils, and installing structures to control erosion. Additional information is provided for each of these activities *Chapter 2.0: Description of Alternatives, Including Proposed Action*. A summary of these actions is provided below.

Prior to grading and construction, soil will be stripped from the site to an average depth of 0.6 inches and stockpiled along the outer boundary of the proposed disturbance. The stockpile(s) will be protected from operational disturbances to maintain facility integrity. The stockpiles will assume as low a profile as possible to decrease wind erosion potential and be oriented, along the longitudinal axis, perpendicular to the prevailing wind direction, if possible, to reduce wind erosion. Stockpiles will be clearly identified with signs to distinguish them from subgrade or other construction materials.

Interim Reclamation

On areas previously disturbed and no longer needed for production, including portions of the wellpads not needed for operational and safety purposes, and reserve pits, interim reclamation will be conducted. Wellpad size will be reduced to the minimum size necessary to conduct safe operations. Cuts and fills will be reduced to a contour of 3:1 or shallower. Reserve pits will be closed and backfilled as soon as pit contents are dry, or by the end of the next full summer following rig release, whichever is first. Immediately upon well completion, any hydrocarbons or trash in the reserve and flare pits will be removed. Pits will be allowed to dry, be pumped dry, or solidified in-situ prior to backfilling. Pit liners will be buried after completion activities. If the pit liner was synthetic, the pit will not be trenched or filled while containing fluids. The pit will then be backfilled with a minimum of five feet of soil material when it dries out. In flat areas, to account

for settling, and to promote surface drainage away from the backfilled pit, the pit area will be slightly mounded.

Interim reclamation will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut and fill slopes to an interim contour that blends with the surrounding topography as much as possible. Once contouring is complete, topsoil stockpiles will be then be re-spread over the disturbed area to preserve the topsoil as a growth medium for final reclamation. The re-spread topsoil will be revegetated with an interim reclamation certified weed-free seed mix designed by the BLM (See Tables 1 through 4). Prior to seeding, the seedbeds will be prepared by backfilling, leveling, and ripping all compacted areas. Contour cultivating to a depth of 4 to 6 inches will be conducted within 24 hours prior to seeding. To mitigate the contrast of recontoured slopes, cleared lines of vegetation will be feathered, and cleared trees, debris and rock will be saved and redistributed over recontoured cut and fill slopes.

Criteria for successful reclamation will include 70 percent of predisturbance cover, 90 percent of dominate species consisting of species in the seed mix and/or found in the surrounding natural undisturbed vegetation, and erosion features equal to or less than surrounding area or any criteria specified by the BLM.

Final Reclamation

For final reclamation facility structures would be removed and drill holes would be plugged and abandoned in accordance with Onshore Oil and Gas Order No. 2. Following the removal of the surface facility, reclamation would begin with backfilling, if necessary, and grading of the sites to approximate natural contours. The area would then be ripped to a depth of 12 inches to eliminate any compaction that may have occurred during final grading. The surface will be left in a slightly roughened condition to decrease erosion and promote site stability. Water bars and physical barricades may be implemented to promote site stabilization following grading.

Pipelines and subsurface power lines would be abandoned in place to avoid renewed surface disturbance. Pipelines will be cleaned by filling with water or nitrogen and pigging to remove the water or nitrogen. Reclamation and abandonment of pipelines and flowlines would require backfilling original cuts, reducing and grading cut and fill slopes to conform to the adjacent terrain, replacement of surface soil materials, water barring, and revegetation. All access roads constructed by the operator would be closed and reclaimed after well plugging and abandonment unless the landowner's and/or land managers request to keep any roads, and accept responsibility for future road maintenance. When the roads are decommissioned, the existing gravel surfacing will be removed and disposed of in an approved manner. Any unnecessary culverts or similar such improvements will also be excavated and disposed of. Natural drainage patterns will be restored along the road and constructed road crossings removed. Road reclamation may include ripping, scarifying, water barring, and barricading.

All final grading will be completed along the contour, where safety conditions permit, to minimize erosion and maximize site stability. Soil samples will then be taken for laboratory analysis. All surface equipment operations will be completed perpendicular to the slope angle where aerial and safety conditions permit.

For final reclamation, salvaged soil will be applied on areas to be revegetated within 30 to 60 days prior to seeding. Salvaged soil will be redistributed to an average depth of 0.5 feet in a manner that: (1) achieves an approximate uniform thickness consistent with safety requirements, post-disturbance land use objectives, and surface water drainage systems; (2) minimizes compaction and erosion of the soil resource; and (3) minimizes deterioration of the biological, physical, and chemical properties of the soil to the degree possible. Soil will be

applied in a single operation to minimize equipment passes over the resoiled area. Following soil redistribution, the disturbed area will be left in a roughened condition.

Final Revegetation

The primary objectives of revegetation are to stabilize the disturbed soils of the project area; establish adapted, self-sustaining, productive vegetation communities capable of supporting the planned post-disturbance land uses on disturbed areas, and; create useful wildlife habitat in terms of cover and food sources. To this end, a variety of grass, forb, and shrub species have been selected for planting based, variably, on their rapid establishment potentials, soil/hydrologic adaptations, and wildlife habitat values. In addition, the forb species selected for planting exhibit flowering characteristics valuable with respect to esthetic concerns. Seeding and/or planting would be repeated until satisfactory revegetation to pre-disturbance conditions is accomplished, as determined by the BLM or other landowner.

Final revegetation would occur after final grading and soil redistribution as described above. Final revegetation involves seedbed preparation, fertilization if necessary, seeding, and mulching. Seedbed preparation would be conducted immediately after grading, and soil redistribution. The seedbed will be harrowed or otherwise roughened to incorporate the fertilizer into the applied soil and prepare the area for seeding. Fertilizer will be broadcast over the seedbed at rates specified as a result of the laboratory analysis conducted as described above.

Seeding would be coordinated with other reclamation activities to occur as soon after seedbed preparation as possible. The seed mixtures to be planted, depending upon vegetation type disturbed, are depicted in Tables 1 through 4. Disturbance areas would be seeded using the appropriate revegetation mixture. Seeding would occur from October 1 to November 15 and from February 1 to March 31. Fall seeding is recommended based on local soil moisture conditions, germination requirements of selected species, and adaptation of seed to soil temperature. Spring seeding would be utilized if areas are ready for revegetation and access is possible. Mixed seedings, one seeding to plant cool season plants in early fall and one seeding to plant warm season plants in spring, would be timed to avoid competition between species and avoid seed distribution problems. Drill seeding would be used on most of the disturbed well site areas. Broadcast seeding would be employed on rocky areas, on steeper slopes, and on small disturbances. Where practical, broadcast seeding areas would be chained, harrowed or cultipacked to cover the seed. Where slope conditions allow, broadcast seeded areas would be dozer-tracked perpendicular to the slope. On small, isolated, or inaccessible sites, hand raking would be used to cover seed and ensure contact between the soil and the seed.

The planted area will then be mulched with the equivalent of 2 tons of certified weed-free hay or straw mulch per acre and the mulch anchored by crimping. Mulch should be evenly spread over the seeded area at rates dependent on seeding method and slope, as needed. Hydromulch at a rate of 0.5 to 0.75 tons per acre can be used in lieu of straw mulching as long as the seed is not applied simultaneously with the mulch.

Livestock grazing can occur on revegetated areas during the reclamation liability period as long as appropriate levels of grazing are maintained. As an adjunct planting operation, shrub seedlings will be planted on all well and facility site disturbed areas with slopes exceeding 2H:1V. The shrubs will be planted on 10-foot centers. The species to be planted and the areas within which planting will occur will be determined at the time of grading and resoiling.

Table 1. Seed Mixture For the Salt Desert Scrub Areas

Common Name	Scientific Name	Pounds per acres (PLS) ¹
<i>Grasses</i>		
ricegrass	<i>Achnatherum hymenoides</i>	2
wheatgrass	<i>Agropyron desertorum</i>	2
Galleta	<i>Pleuraphis jamesii</i>	2
<i>Forbs</i>		
flax	<i>Linum perenne</i>	1
Palmer's penstemon	<i>Penstemon palmeri</i>	1
berryleaf Globemallow	<i>Sphaeralcea grossulariifolia</i>	0.5
<i>Shrubs</i>		
Gray saltbush	<i>Atriplex canescens</i>	2
Fourwing saltbush	<i>Bassia prostrata</i>	2
Cholla	<i>Ericameria nauseosus</i>	1
White cholla	<i>Krascheninnikovia lanata</i>	2
	Total	15.5
¹ Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded (PLS = % seed purity x % seed germination)		
² Shrub seed to be broadcast simultaneously with drilling. The seeding rate for herbaceous species will be doubled where broadcast seeding methods are used.		

Table 2. Seed Mixture For the Sagebrush Shrubland/Grassland Areas

Common Name	Scientific Name	Pounds per acres (PLS) ¹
<i>Grasses</i>		
ricegrass	<i>Achnatherum hymenoides</i>	2
wheatgrass	<i>Agropyron desertorum</i>	2
Bluestem	<i>Elymus elymoides</i>	2
Hardpan wheatgrass	<i>Elymus lanceolatus</i>	1
<i>Forbs</i>		
flax	<i>Linum perenne</i>	1
Palmer's penstemon	<i>Penstemon palmeri</i>	1
Cholla	<i>Sanguisorba minor</i>	1
<i>Shrubs²</i>		
Gray saltbush	<i>Atriplex canescens</i>	2
Fourwing saltbush	<i>Atriplex confertifolia</i>	2
Cholla	<i>Ericameria nauseosus</i>	1
White cholla	<i>Sarcobatus vermiculatus</i>	1
	Total	16
¹ Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded (PLS = % seed purity x % seed germination)		
² Shrub seed to be broadcast simultaneously with drilling. The seeding rate for herbaceous species will be doubled where broadcast seeding methods are used.		

Table 3. Seed Mixture For the Pinyon-Juniper Areas

Common Name	Scientific Name	Pounds per acres (PLS) ¹
<i>Grasses</i>		
Indian ricegrass	<i>Achnatherum hymenoides</i>	2
Needle and thread grass	<i>Stipa comata</i>	2
Western wheatgrass	<i>Pascopyrum smithii</i>	2
<i>Forbs</i>		
Gooseberryleaf globemallow	<i>Sphaeralcea grossulariifolia</i>	0.5
Palmer's penstemon	<i>Penstemon palmeri</i>	0.5
<i>Shrubs</i> ²		
Fourwing saltbush	<i>Atriplex canescens</i>	1
Birchleaf mountain mahogany	<i>Cercocarpus montanus</i>	1
Antelope bitterbrush	<i>Purshia tridentata</i>	1
	Total	10
¹ Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded (PLS = % seed purity x % seed germination)		
² Shrub seed to be broadcast simultaneously with drilling. The seeding rate for herbaceous species will be doubled where broadcast seeding methods are used.		

Table 4. Seed Mixture For the Riparian Areas

Common Name	Scientific Name	Pounds per acres (PLS) ¹
<i>Grasses</i>		
Canarygrass	<i>Phalaris arundinacea</i>	2
Blue spike wheatgrass	<i>Elymus lanceolatus</i> spp. <i>lanceolatus</i>	4
Blue sedge ²	<i>Carex nebrascensis</i>	
Rush ²	<i>Juncus balticus</i>	
<i>Shrubs</i> ²		
Red osier dogwood	<i>Krascheninnikovia lanata</i>	1
Smooth sumac	<i>Rhus trilobata</i>	2
<i>Trees</i>		
Blackleaf cottonwood ²	<i>Populus angustifolia</i>	
	Total	15
¹ Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded (PLS = % seed purity x % seed germination)		
² Sedge and rush root mass plugs, and cottonwood bare stock plantings would be done in the spring, within one month after high water flows, when the riparian water table and soil moisture would ensure planting success		

Rate of plantings per linear feet of disturbed stream bank is as follows: sedge and rush root mass plugs, one 4-inch diameter plug per 5 linear feet; willows, one cutting per linear foot; and cottonwood stock, one cluster planting of 7 trees per 25 linear feet. Individual cottonwood stock, within a planting cluster would be spaced two feet apart. The willows and cottonwoods would be planted adjacent to the stream bank in moist soil, yet above the normal water line.

Shrub seed sources would be from the states of Colorado and Utah and from areas above elevation of 4,000 feet above sea level. Seed from these sources would provide more winter tolerant plants, thus, increasing over-winter survival rates.

3.0 REVEGETATION SCHEDULE

Excavation and grading may ordinarily occur during any month of the year. However, revegetation activities are more limited with respect to the time of year in which they should be completed and should be timed to coincide with a recognized planting season. The following tables depict the Fall and Spring revegetation schedules, on a monthly basis, to be followed to achieve the revegetation objectives set for this project. Site conditions and/or climatic variations may require that these schedules be modified somewhat to achieve reclamation success.

Table 2. Fall Revegetation Schedule

Reclamation Technique	Month											
	J	F	M	A	M	J	J	A	S	O	N	D
Excavation/Grading	Any month											
Resoiling and/or Ripping (if necessary)										XXX		
Seedbed Material Sampling										XXX		
Fertilization										XXX		
Seedbed Preparation											XXX	
Seeding											XX	
Mulching												XX
Seedling Planting (following year)												XX

Table 3. Spring Revegetation Schedule

Reclamation Technique	Month											
	J	F	M	A	M	J	J	A	S	O	N	D
Excavation/Grading	Any month											
Resoiling and/or Ripping (if necessary)			XXX									
Seedbed Material Sampling			XXX									
Fertilization			XX									
Seedbed Preparation			XX									
Seeding			XX									
Mulching			XX									
Seedling Planting			XX									

Note: Weather and surface conditions permitting, the earlier in the season planting is completed the higher the potential for revegetation success.

2.3 BLM Requirements and Applicant-committed Protection Measures

For this project KMG has voluntarily agreed to use and comply with the following protective measures and procedures to avoid or lessen impacts to resources or other land uses, after consultation with BLM regarding agency requirements. These measures and procedures would be applied on privately owned surface unless the private surface owners involved specifically require alternate actions while still in compliance with applicable laws and regulations. An exception to a protective measure or design feature may be approved, by the authorized officer on a case-by-case basis when deemed appropriate by the BLM. Exceptions could be approved in the event a site-specific analysis concludes that the resource or land use that the measure was intended to mitigate is not present or would not be extensively affected in the absence of the mitigation measure or design feature, should the authorized officer deem that the exception is appropriate. In order to reduce potential impacts to specific resources, KMG has committed to the following environmental protection measures as part of the Proposed Action:

Pre-construction Planning, Design, and Compliance Measures

1. KMG would designate a qualified representative to serve as Compliance Coordinator. This person will be responsible for ensuring that all requirements of the APDs (including Conditions of Approval) and POD are followed.
2. KMG and the BLM would attend on-site inspections of each proposed and staked facility site (such as drill locations and other facilities), new access road, access road upgrades (two-track roads), and pipeline alignment projects to develop site-specific recommendations and mitigation measures.
3. New roads would be constructed and existing roads maintained in the project area in accordance with standards in the BLM Manual 9113 and applicable regulations for resource roads and construction details outlined in the Proposed Action and Conditions of Approval. These standards would be followed on BLM surface ownership lands.
4. Prior to construction, KMG would submit an APD package in accordance with Onshore Order #1 to the BLM. This package would contain individual APDs for each drill site, as well as schematics of facilities, and ROW applications for pipelines, utilities, and access roads. APDs submitted by KMG would show the layout of the drill pad over the existing topography, the dimensions of the pad, cross sections of the cuts and fills (when required), the location and dimensions of reserve pits, locations of access roads, and plans for interim and final reclamation.
5. KMG would slope-stake construction when required by the BLM (for example, in steep or unstable slopes) and receive approval from the BLM before construction begins.
6. BLM would require roads to be constructed with a 0.3- to 0.5-foot crown, and ditched. The topsoil would be graded over the cut slope so no berm is left at the top of the cut slope.
7. BLM would require that culverts in roads be covered with a minimum of 12 inches of fill or one-half the diameter of the pipe, whichever is greater. The inlet and outlet will be set flush with existing ground and lined up in the center of the draw. Before the area is backfilled, the bottom of the pipe will be bedded on stable ground that does not contain expansive or clay soils, protruding rocks that would damage the pipe, or unevenly sized material that would not form a good seat for the pipe. The site would be backfilled with unfrozen material and rocks no larger than 2 inches in diameter. Care would be exercised to thoroughly compact the backfill under the haunches of the conduit. The backfill would be brought up evenly in 6-inch layers on both sides of the conduit.
8. Additional culverts would be installed in the existing access road as needed or as directed by BLM.

9. The access roads would be surfaced with an appropriate grade of aggregate or gravel to a depth of 2 to 4 inches before the drilling equipment or rig is moved onto the pad.
10. BLM would require that access roads be maintained in a safe and usable condition. A regular maintenance program would include, but is not limited to, blading, ditching, installing or cleaning culverts, and surfacing.
11. The written approval of the authorized officer would be obtained before snow removal outside the new and existing roadways is undertaken. If approval is given, equipment used for snow removal operations outside the road ditches would be equipped with shoes to keep the blade off the ground surface. Special precautions would be taken where the surface of the ground is uneven to ensure that equipment blades do not destroy the vegetation.
12. BLM would require that wing ditches be constructed, as necessary, to divert water from road ditches.
13. Trenches that are open for the installation of pipelines would have plugs placed no more than 1,000 feet apart to allow livestock and wildlife to cross the trench or walk out of it, if needed. Placement of plugs would be determined in consultation with BLM and any affected landowner.
14. Procedures would be implemented to prevent livestock or wildlife from falling into open excavations. Procedures could include temporary covers, fencing, or other means acceptable to BLM and any affected landowner.
15. On the well pad locations, BMPs to minimize erosion would include the use of ditches, water bars and detention basins. These actions would be implemented in accordance with the Utah Pollutant Discharge Elimination System (UPDES) storm water permit program and the Utah Non-point Source Management Plan. Disturbed areas resulting from all construction would be revegetated as described in **Appendix B**.
16. KMG would provide as-built maps of surface disturbing activities following completion of construction activities, or annually as needed.

Resource-specific Requirements

KMG propose to implement resource-specific protection measures, procedures, and BLM management requirements on public lands. These measures are outlined below and in the various resource sections.

Geology and Minerals

Protection measures presented in Section 2.3.2.3, Water Resources, would avoid or minimize many of the potential impacts to surface mineral resources. BLM and UDOGM policies on casing and cementing would protect subsurface mineral resources from adverse impacts.

Soils

1. KMG would reduce the area of disturbance to the absolute minimum necessary for construction and production operations while providing for the safety of the operation.
2. Where feasible, KMG would locate pipelines immediately adjacent to roads to avoid creating separate areas of disturbance and to reduce the total area of disturbance.
3. KMG would avoid using frozen or saturated soils as construction material.
4. KMG would minimize construction in areas of steep slopes.
5. Cut slopes would be designed in a manner that would retain topsoil, and facilitate use of surface treatment such as mulch and subsequent revegetation.
6. KMG would selectively strip and salvage topsoil or the best suitable medium for plant growth from all disturbed areas. Topsoil would be removed and conserved to

- a minimum depth of 6 inches and a maximum of 12 inches from all drill locations, unless otherwise agreed by the BLM and the operator.
7. Topsoil stockpiles would be respread upon completion of construction activities or when such areas are no longer needed for production efforts.
 8. Where possible, disturbance to vegetated cuts and fills would be minimized on existing improved roads.
 9. KMG would install runoff and erosion control measures such as water bars, berms, and interceptor ditches if needed.
 10. KMG would install culverts for ephemeral and intermittent drainage crossings. In addition, drainage crossing structures would be designed to carry the 25-year discharge event, or as otherwise directed by the BLM.
 11. Layout of the access roads may require minor variations in routing to avoid steep slopes adjacent to ephemeral or intermittent drainage channels. Where possible, KMG would preserve a 100-foot-wide buffer of natural vegetation (not including wetland vegetation) between construction and ephemeral and intermittent channels.
 12. KMG would include adequate drainage control devices and measures in the design of roads (for example, berms and drainage ditches, diversion ditches, cross drains, culverts, out-sloping, and energy dissipaters). These devices and measures would be located at sufficient intervals and intensities to adequately control and direct surface runoff above, below, and within the road to avoid erosive, concentrated flows. In conjunction with surface runoff or drainage control measures, KMG would use erosion control devices and measures such as temporary barriers, ditch blocks, erosion stops, mattes, mulches, and vegetative covers. In addition, KMG would implement a revegetation program as soon as possible to reestablish the soil protection afforded by vegetation.
 13. Once an area is no longer needed for production, it will be reclaimed in accordance with BLM-approved reclamation guidelines. Once the project is complete, final reclamation will be conducted. The following measures would be implemented during final reclamation:
 - Rip or subsoil all surfaces to be re-contoured to a depth of 12 inches;
 - Restore topography to near pre-existing contours at the well sites, along access roads and pipelines, and other facilities sites;
 - Redistribute up to 6 inches of topsoil or suitable plant growth material, if available, over all disturbed surfaces;
 - Rip or subsoil all regarded surfaces to a depth of 12 to 14 inches to eliminate any compaction that may have occurred during final grading; and
 - Roughen the soil surface, apply fertilizer as required, seed, and mulch.
 14. KMG would avoid constructing well pads and roads, where possible, on steep, gullied or severely eroded, or low reclamation potential lands such as map units 9, 17, 35, 37, 92, and 93 (**Figure 3-1**).

Water Resources

Some measures identified in Section 2.3.2.2, Soils, for protection of soil resources, such as use of erosion and sedimentation controls during road and drill pad construction, also would protect water resources. The following additional measures would be implemented as part of the Proposed Action to protect water resources:

1. Well sites, access roads, and pipelines would not be constructed within 500 feet of surface water and riparian areas without BLM approval. Where possible, a 100-foot-wide buffer of natural vegetation (not including wetland vegetation) would be maintained between construction and ephemeral and intermittent channels.
2. New roads would be designed and constructed in accordance with BLM road standards, such as those found in BLM's 9113-Roads Manual. BMPs for erosion control and hydrologic protection would be implemented during the construction, operation and reclamation of the project facilities.

3. Access road routes would be adjusted if necessary to avoid steep slopes adjacent to ephemeral or intermittent drainage channels. Locations on steep slopes that require deep, nearly vertical cuts and steep fill slopes would be avoided where possible or appropriately mitigated.
4. The area of disturbance within drainage channels would be minimized. Road channel crossings would be designed to minimize changes in channel geometry and subsequent alterations in flow hydraulics. Channel crossings would be constructed during periods of no-flow or low-flow. Disturbed channel beds would be regraded to the original geometric configuration and contain the same or similar bed material. Pipeline channel crossings would be constructed with pipe buried a minimum of 4 to 6 feet below the channel bottom, as specified by BLM. All crossings or encroachments of waters of the U.S. would be coordinated with the U.S. Army Corps of Engineers.
5. All wells would be cased and cemented in accordance with Onshore Oil and Gas Order No. 2 to contain all fluids and protect groundwater during drilling and well completion.
6. Reserve pits would not be constructed in areas of shallow groundwater or in natural watercourses. Reserve pits would be constructed in cut rather than fill materials, and lined with an impermeable liner to prevent contamination of groundwater and soils and to conserve water. Sufficient freeboard would be maintained in all reserve pits to prevent overflow. If leakage is found outside the pit, drilling operations would be shut down until the problem is corrected.
7. Hydrostatic test water used in conjunction with pipeline testing, and all water used during construction or dust abatement would be purchased from Price City or extracted from sources with any necessary approval of the State of Utah. Hydrostatic test water would be injected into an authorized deep injection well, in compliance with all applicable requirements.
8. If required, KMG would develop and implement a Storm Water Pollution Prevention Plan per Utah Department of Environmental Quality (UDEQ) regulations. All required UDEQ permits would be in place before storm water is discharged during construction activities.
9. KMG would take strict precautions to prevent pipeline breaks and other potential accidental discharges of oil or hazardous chemicals into adjacent streams. An oil Spill Prevention, Control, and Countermeasure (SPCC) Plan would be developed in accordance with federal regulations if oil is stored onsite in sufficient quantities. Spills and leaks would be cleaned up to prevent pollution of surface water or groundwater.

Vegetation, Wetlands, and Noxious Weeds

1. KMG will follow the Weed Plan in **Appendix C** as approved by BLM.
2. KMG would evaluate all project facility sites for occurrence and distribution of waters of the U.S., special aquatic sites, and jurisdictional wetlands. All project facilities would be located outside these sensitive areas. If complete avoidance is not possible, KMG would minimize impacts through modification and minor relocations. KMG will comply with applicable regulations for any activities that involve dredge or fill or wetlands.
3. An approved Pesticide Use Proposal would be obtained before herbicides or other pesticides are applied on BLM surface ownership lands to control noxious weeds.
4. Once an area is no longer needed for production, it will be reclaimed in accordance with BLM-approved reclamation guidelines. Once the project is complete, final reclamation will be conducted.
5. Disturbed areas would be seeded and stabilized in accordance with BLM-approved reclamation guidelines.

6. Off-road driving relating to project activities would be restricted to the ROW corridors, well pads, and approved access roads. Signs would be used to identify approved and restricted (i.e., no access allowed) roads.
7. KMG would avoid all known individuals and/or populations of special status species within occupied habitat during surface disturbance activities. Avoidance measures may include, but are not limited to, well pad relocation or modification, road and pipeline re-routes, and species relocation (i.e., hand removal of individuals and/or populations within surface disturbance-related areas into adjacent suitable habitat). KMG would consult with the BLM for relocation of species.

Range Resources and Other Land Uses

1. KMG would coordinate with the affected livestock operators to ensure that livestock control structures remain functional (as directed by the livestock operator) during drilling and production operations, and to coordinate timing of activities planned.
2. When necessary, traffic control and speed limits would be used to limit potential conflicts.
3. In areas where fences are crossed by new road construction, cattle guards will be installed in place of gates.
4. KMG would maintain range improvements during the construction period. KMG would repair any range improvements to a functional condition that are damaged as a result of construction activities.

Wildlife, Fisheries, and Special Status Species

1. KMG would prohibit unnecessary off-site activities of operational personnel near the drill sites. KMG also would inform all project employees of applicable wildlife laws and the potential penalties associated with unlawful take and harassment.
2. KMG will not construct any facilities within crucial winter range for mule deer and elk during these dates December 1 to April 15 unless an exception, waiver or modification is authorized by the BLM.
3. In order to avoid collisions with big game, roads constructed within the project area would have a designed speed of 15 mph.
4. In the event that construction of the proposed facilities should occur during the raptor breeding season (February 1 through August 15), a raptor survey would be conducted, in coordination with the BLM and Utah Department of Water Resources (UDWR).
5. KMG would use BLM BMPs regarding raptor nest protection, which are BLM-specific recommendations for implementation of the U.S. Fish and Wildlife Service (USFWS), Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances. This generally includes a buffer around an active nest (e.g., 1.0 mile for bald eagle and peregrine falcon, 0.5 mile for golden eagle, ferruginous hawk, red-tailed hawk, and 0.25 mile for great-horned owl, prairie falcon, and burrowing owl). KMG would not operate inside these buffers unless an exception, waiver or modification is authorized by the BLM.
6. In coordination with the BLM and UDWR, raptor nests would be inventoried annually to evaluate potential nesting activity in areas where work may be occurring during the raptor nesting period from February 1 to August 15.
7. All pits and open cellars would be fenced for the protection of wildlife and livestock. Fencing would be in accordance with BLM specifications. Netting would be placed over all reserve or production pits to eliminate any hazard to migratory birds or other wildlife.
8. To protect nesting birds, removal of migratory bird habitat within the project area would be avoided between April 15 and August 1. Should removal of habitat be required during this period, KMG would coordinate with the BLM and UDWR to conduct breeding bird surveys in high value breeding habitat and implement

- appropriate mitigation, such as buffer zones around occupied nests (BLM-sensitive and Birds of Conservation Concern [BCC] species), as needed.
9. KMG would avoid leaving trenches open overnight. Where trenches cannot be back-filled immediately, escape ramps should be constructed at least every 90 meters (300 feet). Escape ramps can be short lateral trenches or wooden planks sloping to the surface. The slope should be less than 45 degrees (1:1).
 10. KMG would inspect trenches that have been left open overnight. Any animals discovered shall either be allowed to escape before activities resume or carefully removed from the trench and allowed to escape. A final inspection of the open trench segment shall also be made immediately prior to backfilling.
 11. KMG would keep trenching and back-filling crews close together, to minimize the amount of open trenches at any given time. Efforts will be made to minimize the length of open trench along the ROW.
 12. KMG would install soft ditch-plugs at known ungulate crossing sites, if pipeline trenching conflicts with spring or fall ungulate movement across pipeline construction area. During excavation of trenches, escape ramps consisting of loose earth deposited in the trench shall be placed to facilitate the escape of any wildlife species that may enter the excavations.
 13. KMG would not conduct surface disturbing activities between May 15 and June 15 in crucial pronghorn range unless an exception, waiver or modification is authorized by the BLM.
 14. Prior to the initiation of surface disturbance activities on federal sections (including workover and maintenance activities), applicable biological surveys would be conducted through areas of suitable habitat for sensitive species (i.e., federally listed species and BLM-sensitive species) during the appropriate season, as determined by the BLM. Additional mitigation measures would be determined during the APD onsite process.
 15. Prior to the initiation of surface disturbance activities on federal sections (including workover and maintenance activities), black-footed ferret clearance surveys would be conducted in active white-tailed prairie dog colonies that have a burrow density of eight burrows per acre or greater, and that would be directly disturbed by the Proposed Action. Additional mitigation measures would be determined during the APD onsite process.
 16. KMG would contribute funds in an amount not to exceed \$75,000 for the proposed Pinyon-juniper removal project located in Sections 22 and 23 of Township 13 South and Range 10 East in Carbon County, Utah.

Cultural Resources

1. A Class III inventory for cultural resources has been done for wells for which siting location has been determined. For future wells, and if the area of potential effect were to change, additional inventory would be required.
2. Avoidance is the preferred method for mitigating adverse effects to a property that is considered eligible for, or is already on, the National Register of Historic Places (NRHP).
3. Adverse effects to cultural or historical properties that cannot be avoided would be mitigated by preparing and implementing a cultural resources protection plan. Protection plans would be developed as needed for eligible sites that would be impacted.
4. If cultural resources are discovered at any time during construction, all construction would halt and BLM would be immediately notified. Work would not resume until BLM issues a Notice to Proceed.

Transportation

1. Existing roads, if any, would be used as collectors and local roads whenever possible. Standards for road design would be consistent with BLM Road Standards

Manual Section 9113. The proposed access roads would be constructed to the BLM standard for a local road.

2. All roads on public lands that are not required for routine operation and maintenance of producing wells, ancillary facilities, or field production would be permanently blocked, recontoured, reclaimed, and revegetated.
3. Areas with important resource values, steep slopes, and fragile soils would be avoided where possible in planning for new roads.
4. Permits are required from Carbon County for any access to or across a county road or for any pipeline that crosses a county road. These permits would be acquired before additional roads are built. Roads on private lands would be reclaimed in a like manner to those on public lands, depending on the desires of the landowner.
5. KMG would be responsible for preventive and corrective maintenance of roads in the project area throughout the duration of the project. Maintenance may include blading, surfacing, cleaning ditches and drainage facilities, abating dust, controlling noxious weeds, or other requirements as directed by the BLM or the Carbon County Road and Bridge Department.
6. Except in emergencies, access would be limited to drier conditions to prevent severe rutting of the road surface. No construction or routine maintenance activities would be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of 4 inches deep, the soil would be considered too wet to adequately support construction equipment. Culverts would be installed where needed to allow drainage in all draws and areas of natural drainage. Low water crossings would be used where applicable. Onsite reviews would be conducted with BLM personnel for approval of proposed access before any construction begins.

Health and Safety

1. Sanitation facilities installed on the drill sites, and any resident camps would be approved by the UDEQ.
2. To minimize undue exposure to hazardous situations, KMG would comply with all applicable rules and regulations (such as Onshore Orders and OSHA requirements) that would prevent the public from entering hazardous areas and would post warning signs to alert the public of truck traffic.
3. KMG would haul all garbage from the drill site to a state-approved sanitary landfill for disposal. In addition, KMG would collect and store any garbage or refuse on location in containers approved by the BLM until it can be transported.
4. During construction and when production operations begin, KMG would maintain an inventory of chemicals or hazardous substances for all items that may be at the site. KMG would institute a Hazard Communication Program for employees and would require subcontractors to establish programs in accordance with OSHA regulations at 29 CFR 1910.1200. These programs are designed to educate and protect employees and subcontractors with respect to any chemicals or hazardous substances that may be present in the work place. In addition, Material Safety Data Sheets would accompany every chemical or hazardous material that is brought on location and would become part of the file maintained by KMG. All employees would receive proper training in storage, handling, and disposal of hazardous substances.
5. SPCC plans would be written and implemented as necessary, in accordance with 40 CFR Part 112, to prevent discharge into navigable waters of the U.S.
6. If quantities that exceed 10,000 pounds or the threshold planning quantity as designated by the PFO are to be produced or stored in association with the project, chemical and hazardous materials would be inventoried and reported in accordance with the toxic release inventory requirements set forth in Title III of the SARA and codified at 40 CFR Part 335. The required Section 311 and 312 forms

- would be submitted at the specified times to the state and county emergency management coordinators and the local fire departments.
7. Any hazardous wastes, as defined by the Resource Conservation and Recovery Act, would be transported and disposed of in accordance with all applicable federal, state, and local regulations.
 8. All storage tanks and compressor facilities that are designed to contain oil, glycol, produced water, or other fluid that may constitute a hazard to public health or safety, must be surrounded by a secondary means of containment sufficient to contain 1.5 times the volume of the largest single tank within the containment area. The containment or diversionary structure must be constructed so that any discharge of oil, glycol, produced water, or other hazardous fluid from within the containment system does not drain, infiltrate, or otherwise escape to groundwater, surface water, or navigable waters before cleanup is completed.

Aesthetics

1. KMG will paint the building housing the pump skids at SWD well sites 41-25 and 31-30 so that they match the colors of nearby barns and farm buildings (a light/dark green combination in this case) and will paint the associated tanks a tan color that will blend in with the hills beyond. KMG will follow BLM BMPs and paint all other facilities using a BLM approved color to blend in with the surrounding environment. These actions will reduce the visual impact of these well sites.

Noise

1. KMG would muffle and maintain all motorized equipment according to manufacturer's specifications.
2. In any area of operations (such as a drill site or compressor station) where noise levels may exceed safe limits specified by OSHA, KMG would provide and require that employees use proper personal protective equipment.
3. The BLM will require that compressor engines located on public lands be enclosed in a building and located at least 600 feet away from sensitive receptors or sensitive resource areas to comply with these limits on noise levels.

Air Quality

1. KMG would adhere to all applicable ambient air quality standards, permit requirements (including preconstruction, testing, and operating permits), standards for motorized equipment, and other regulations, as required by the Utah Department of Air Quality (UDAQ).
2. KMG will not allow garbage or refuse to be burned at well locations or other facilities.
3. On federal land, KMG would immediately abate fugitive dust (by application of water, chemical dust suppressants, or other measures) when air quality is impaired, soil is lost, or safety concerns are noticed by KMG or identified by the BLM or the UDAQ. BLM would approve the control measure, location, and application rates. If watering is the approved control measure, the operator will obtain the water from state-approved sources in accordance with any applicable regulations.
4. KMG would follow manufacturers' specifications for the operation and maintenance of all facilities and vehicles to reduce emissions.
5. KMG would select the natural gas-fired compressor engines as appropriate to minimize potential emissions of nitrogen oxides (NO_x) and carbon monoxide (CO) at the new facilities.
6. KMG would follow UDAQ Best Available Control Technology (BACT) guidelines to minimize emissions.

Appendix B

Revegetation Plan For The Cardinal Draw II Coal Bed Methane Project

1.0 INTRODUCTION

Kerr-McGee Oil & Gas Onshore LP (KMG) proposes to develop coal bed methane resources within the Ferron coals and sands in Carbon County, Utah. KMG will implement the following revegetation plan to reclaim the proposed disturbances associated with the Cardinal Draw Coal Bed Methane Project. All disturbances proposed will be reclaimed including the well pads, salt-water disposal wells, and pipeline and utility corridors. All upgraded and newly constructed roads will be decommissioned and reclaimed except those the BLM or private landowner requests be kept open. Well pad and salt-water disposal well facilities will be dismantled and scrapped or moved to another site for use on future projects.

Revegetation activities at each disturbed site will begin as soon as possible given operational requirements. On all areas not needed for production, interim reclamation will be conducted as soon as possible after completion of construction to reduce the potential for erosion. This includes utility corridors and any portions of the well pads, salt-water disposal wells, and road travel surfaces disturbed during construction, but not needed during production. Interim reclamation and revegetation will be completed the first planting season following the conclusion of topsoil re-spreading and well pad grading.

Final reclamation and revegetation of the well pads, salt-water disposal wells, and road travel surfaces will be conducted the first planting season following project element decommissioning. All revegetation materials, methods, and techniques to be employed will be acceptable to the BLM and State of Utah.

2.0 RECLAMATION

KMG also plans to employ mechanical site stabilization measures at well pad sites and within road corridors as a part of this project. Both interim and final reclamation of individual facilities would involve three primary components. They are backfilling, grading, redistributing soils, and installing structures to control erosion. Additional information is provided for each of these activities *Chapter 2.0: Description of Alternatives, Including Proposed Action*. A summary of these actions is provided below.

Prior to grading and construction, soil will be stripped from the site to an average depth of 0.6 inches and stockpiled along the outer boundary of the proposed disturbance. The stockpile(s) will be protected from operational disturbances to maintain facility integrity. The stockpiles will assume as low a profile as possible to decrease wind erosion potential and be oriented, along the longitudinal axis, perpendicular to the prevailing wind direction, if possible, to reduce wind erosion. Stockpiles will be clearly identified with signs to distinguish them from subgrade or other construction materials.

Interim Reclamation

On areas previously disturbed and no longer needed for production, including portions of the wellpads not needed for operational and safety purposes, and reserve pits, interim reclamation will be conducted. Wellpad size will be reduced to the minimum size necessary to conduct safe operations. Cuts and fills will be reduced to a contour of 3:1 or shallower. Reserve pits will be closed and backfilled as soon as pit contents are dry, or by the end of the next full summer following rig release, whichever is first. Immediately upon well completion, any hydrocarbons or trash in the reserve and flare pits will be removed. Pits will be allowed to dry, be pumped dry, or solidified in-situ prior to backfilling. Pit liners will be buried after completion activities. If the pit liner was synthetic, the pit will not be trenched or filled while containing fluids. The pit will then be backfilled with a minimum of five feet of soil material when it dries out. In flat areas, to account

for settling, and to promote surface drainage away from the backfilled pit, the pit area will be slightly mounded.

Interim reclamation will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut and fill slopes to an interim contour that blends with the surrounding topography as much as possible. Once contouring is complete, topsoil stockpiles will be then be re-spread over the disturbed area to preserve the topsoil as a growth medium for final reclamation. The re-spread topsoil will be revegetated with an interim reclamation certified weed-free seed mix designed by the BLM (See Tables 1 through 4). Prior to seeding, the seedbeds will be prepared by backfilling, leveling, and ripping all compacted areas. Contour cultivating to a depth of 4 to 6 inches will be conducted within 24 hours prior to seeding. To mitigate the contrast of recontoured slopes, cleared lines of vegetation will be feathered, and cleared trees, debris and rock will be saved and redistributed over recontoured cut and fill slopes.

Criteria for successful reclamation will include 70 percent of predisturbance cover, 90 percent of dominate species consisting of species in the seed mix and/or found in the surrounding natural undisturbed vegetation, and erosion features equal to or less than surrounding area or any criteria specified by the BLM.

Final Reclamation

For final reclamation facility structures would be removed and drill holes would be plugged and abandoned in accordance with Onshore Oil and Gas Order No. 2. Following the removal of the surface facility, reclamation would begin with backfilling, if necessary, and grading of the sites to approximate natural contours. The area would then be ripped to a depth of 12 inches to eliminate any compaction that may have occurred during final grading. The surface will be left in a slightly roughened condition to decrease erosion and promote site stability. Water bars and physical barricades may be implemented to promote site stabilization following grading.

Pipelines and subsurface power lines would be abandoned in place to avoid renewed surface disturbance. Pipelines will be cleaned by filling with water or nitrogen and pigging to remove the water or nitrogen. Reclamation and abandonment of pipelines and flowlines would require backfilling original cuts, reducing and grading cut and fill slopes to conform to the adjacent terrain, replacement of surface soil materials, water barring, and revegetation. All access roads constructed by the operator would be closed and reclaimed after well plugging and abandonment unless the landowner's and/or land managers request to keep any roads, and accept responsibility for future road maintenance. When the roads are decommissioned, the existing gravel surfacing will be removed and disposed of in an approved manner. Any unnecessary culverts or similar such improvements will also be excavated and disposed of. Natural drainage patterns will be restored along the road and constructed road crossings removed. Road reclamation may include ripping, scarifying, water barring, and barricading.

All final grading will be completed along the contour, where safety conditions permit, to minimize erosion and maximize site stability. Soil samples will then be taken for laboratory analysis. All surface equipment operations will be completed perpendicular to the slope angle where aerial and safety conditions permit.

For final reclamation, salvaged soil will be applied on areas to be revegetated within 30 to 60 days prior to seeding. Salvaged soil will be redistributed to an average depth of 0.5 feet in a manner that: (1) achieves an approximate uniform thickness consistent with safety requirements, post-disturbance land use objectives, and surface water drainage systems; (2) minimizes compaction and erosion of the soil resource; and (3) minimizes deterioration of the biological, physical, and chemical properties of the soil to the degree possible. Soil will be

applied in a single operation to minimize equipment passes over the resoiled area. Following soil redistribution, the disturbed area will be left in a roughened condition.

Final Revegetation

The primary objectives of revegetation are to stabilize the disturbed soils of the project area; establish adapted, self-sustaining, productive vegetation communities capable of supporting the planned post-disturbance land uses on disturbed areas, and; create useful wildlife habitat in terms of cover and food sources. To this end, a variety of grass, forb, and shrub species have been selected for planting based, variably, on their rapid establishment potentials, soil/hydrologic adaptations, and wildlife habitat values. In addition, the forb species selected for planting exhibit flowering characteristics valuable with respect to esthetic concerns. Seeding and/or planting would be repeated until satisfactory revegetation to pre-disturbance conditions is accomplished, as determined by the BLM or other landowner.

Final revegetation would occur after final grading and soil redistribution as described above. Final revegetation involves seedbed preparation, fertilization if necessary, seeding, and mulching. Seedbed preparation would be conducted immediately after grading, and soil redistribution. The seedbed will be harrowed or otherwise roughened to incorporate the fertilizer into the applied soil and prepare the area for seeding. Fertilizer will be broadcast over the seedbed at rates specified as a result of the laboratory analysis conducted as described above.

Seeding would be coordinated with other reclamation activities to occur as soon after seedbed preparation as possible. The seed mixtures to be planted, depending upon vegetation type disturbed, are depicted in Tables 1 through 4. Disturbance areas would be seeded using the appropriate revegetation mixture. Seeding would occur from October 1 to November 15 and from February 1 to March 31. Fall seeding is recommended based on local soil moisture conditions, germination requirements of selected species, and adaptation of seed to soil temperature. Spring seeding would be utilized if areas are ready for revegetation and access is possible. Mixed seedings, one seeding to plant cool season plants in early fall and one seeding to plant warm season plants in spring, would be timed to avoid competition between species and avoid seed distribution problems. Drill seeding would be used on most of the disturbed well site areas. Broadcast seeding would be employed on rocky areas, on steeper slopes, and on small disturbances. Where practical, broadcast seeding areas would be chained, harrowed or cultipacked to cover the seed. Where slope conditions allow, broadcast seeded areas would be dozer-tracked perpendicular to the slope. On small, isolated, or inaccessible sites, hand raking would be used to cover seed and ensure contact between the soil and the seed.

The planted area will then be mulched with the equivalent of 2 tons of certified weed-free hay or straw mulch per acre and the mulch anchored by crimping. Mulch should be evenly spread over the seeded area at rates dependent on seeding method and slope, as needed. Hydromulch at a rate of 0.5 to 0.75 tons per acre can be used in lieu of straw mulching as long as the seed is not applied simultaneously with the mulch.

Livestock grazing can occur on revegetated areas during the reclamation liability period as long as appropriate levels of grazing are maintained. As an adjunct planting operation, shrub seedlings will be planted on all well and facility site disturbed areas with slopes exceeding 2H:1V. The shrubs will be planted on 10-foot centers. The species to be planted and the areas within which planting will occur will be determined at the time of grading and resoiling.

Table 1. Seed Mixture For the Salt Desert Scrub Areas

Common Name	Scientific Name	Pounds per acres (PLS) ¹
<i>Grasses</i>		
ricegrass	<i>Achnatherum hymenoides</i>	2
wheatgrass	<i>Agropyron desertorum</i>	2
Galleta	<i>Pleuraphis jamesii</i>	2
<i>Forbs</i>		
flax	<i>Linum perenne</i>	1
Yucca penstemon	<i>Penstemon palmeri</i>	1
berryleaf Globemallow	<i>Sphaeralcea grossularifolia</i>	0.5
<i>Shrubs</i>		
wing saltbush	<i>Atriplex canescens</i>	2
grease kochia	<i>Bassia prostrata</i>	2
cholla rabbitbrush	<i>Ericameria nauseosus</i>	1
fat cholla	<i>Krascheninnikovia lanata</i>	2
	Total	15.5

¹ Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded (PLS = % seed purity x % seed germination)

² Shrub seed to be broadcast simultaneously with drilling. The seeding rate for herbaceous species will be doubled where broadcast seeding methods are used.

Table 2. Seed Mixture For the Sagebrush Shrubland/Grassland Areas

Common Name	Scientific Name	Pounds per acres (PLS) ¹
<i>Grasses</i>		
ricegrass	<i>Achnatherum hymenoides</i>	2
wheatgrass	<i>Agropyron desertorum</i>	2
blue tail	<i>Elymus elymoides</i>	2
pike wheatgrass	<i>Elymus lanceolatus</i>	1
<i>Forbs</i>		
flax	<i>Linum perenne</i>	1
Yucca penstemon	<i>Penstemon palmeri</i>	1
burnet	<i>Sanguisorba minor</i>	1
<i>Shrubs²</i>		
wing saltbush	<i>Atriplex canescens</i>	2
grease saltbush	<i>Atriplex confertifolia</i>	2
cholla rabbitbrush	<i>Ericameria nauseosus</i>	1
cholla wood	<i>Sarcobatus vermiculatus</i>	1
	Total	16

¹ Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded (PLS = % seed purity x % seed germination)

² Shrub seed to be broadcast simultaneously with drilling. The seeding rate for herbaceous species will be doubled where broadcast seeding methods are used.

Table 3. Seed Mixture For the Pinyon-Juniper Areas

Common Name	Scientific Name	Pounds per acres (PLS) ¹
<i>Grasses</i>		
Indian ricegrass	<i>Achnatherum hymenoides</i>	2
Needle and thread grass	<i>Stipa comata</i>	2
Western wheatgrass	<i>Pascopyrum smithii</i>	2
<i>Forbs</i>		
Gooseberryleaf globemallow	<i>Sphaeralcea grossulariifolia</i>	0.5
Palmer's penstemon	<i>Penstemon palmeri</i>	0.5
<i>Shrubs</i> ²		
Fourwing saltbush	<i>Atriplex canescens</i>	1
Birchleaf mountain mahogany	<i>Cercocarpus montanus</i>	1
Antelope bitterbrush	<i>Purshia tridentata</i>	1
	Total	10
¹ Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded (PLS = % seed purity x % seed germination)		
² Shrub seed to be broadcast simultaneously with drilling. The seeding rate for herbaceous species will be doubled where broadcast seeding methods are used.		

Table 4. Seed Mixture For the Riparian Areas

Common Name	Scientific Name	Pounds per acres (PLS) ¹
<i>Grasses</i>		
Canarygrass	<i>Phalaris arundinacea</i>	2
Blue spike wheatgrass	<i>Elymus lanceolatus</i> spp. <i>lanceolatus</i>	4
Spikesedge ²	<i>Carex nebrascensis</i>	
Rush ²	<i>Juncus balticus</i>	
<i>Shrubs</i> ²		
Redstart	<i>Krascheninnikovia lanata</i>	1
Smooth sumac	<i>Rhus trilobata</i>	2
<i>Trees</i>		
Blackleaf cottonwood ²	<i>Populus angustifolia</i>	
	Total	15
¹ Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded (PLS = % seed purity x % seed germination)		
² Sedge and rush root mass plugs, and cottonwood bare stock plantings would be done in the spring, within one month after high water flows, when the riparian water table and soil moisture would ensure planting success		

Rate of plantings per linear feet of disturbed stream bank is as follows: sedge and rush root mass plugs, one 4-inch diameter plug per 5 linear feet; willows, one cutting per linear foot; and cottonwood stock, one cluster planting of 7 trees per 25 linear feet. Individual cottonwood stock, within a planting cluster would be spaced two feet apart. The willows and cottonwoods would be planted adjacent to the stream bank in moist soil, yet above the normal water line.

Shrub seed sources would be from the states of Colorado and Utah and from areas above elevation of 4,000 feet above sea level. Seed from these sources would provide more winter tolerant plants, thus, increasing over-winter survival rates.

3.0 REVEGETATION SCHEDULE

Excavation and grading may ordinarily occur during any month of the year. However, revegetation activities are more limited with respect to the time of year in which they should be completed and should be timed to coincide with a recognized planting season. The following tables depict the Fall and Spring revegetation schedules, on a monthly basis, to be followed to achieve the revegetation objectives set for this project. Site conditions and/or climatic variations may require that these schedules be modified somewhat to achieve reclamation success.

Table 2. Fall Revegetation Schedule

Reclamation Technique	Month											
	J	F	M	A	M	J	J	A	S	O	N	D
Excavation/Grading	Any month											
Resoiling and/or Ripping (if necessary)										XXX		
Seedbed Material Sampling										XXX		
Fertilization										XXX		
Seedbed Preparation											XXX	
Seeding											XX	
Mulching												XX
Seedling Planting (following year)												XX

Table 3. Spring Revegetation Schedule

Reclamation Technique	Month											
	J	F	M	A	M	J	J	A	S	O	N	D
Excavation/Grading	Any month											
Resoiling and/or Ripping (if necessary)			XXX									
Seedbed Material Sampling			XXX									
Fertilization			XX									
Seedbed Preparation			XX									
Seeding			XX									
Mulching			XX									
Seedling Planting			XX									

Note: Weather and surface conditions permitting, the earlier in the season planting is completed the higher the potential for revegetation success.

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

5. LEASE DESIGNATION AND SERIAL NUMBER:

UTU080565

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing well below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

OIL WELL GAS WELL OTHER Salt Water Disposal

8. WELL NAME and NUMBER:

Wellington Federal 31-30 SWD

2. NAME OF OPERATOR:

Kerr-McGee Oil & Gas Onshore LP

9. API NUMBER:

43-007-31375

3. ADDRESS OF OPERATOR: **1099 18th Street-Ste 1800-Denver, CO 80202**

PHONE NUMBER

720-929-6000

10. FIELD AND POOL, OR WILDCAT:

Helper/Ferron

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **731' FNL, 2333' FEL** *523299X 39.584145*
43814294 -110.728700

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDAN: **NWNE, Sec. 30: T14S-R11E, S.L.B.&M**

COUNTY: **Carbon**

STATE: **UTAH**

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

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

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

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully request your consideration and approval of the following new surveyor plat and maps for the Wellington Federal 31-30 SWD well attached and made a part of this sundry. In order to accommodate for the (HP298) drilling rig, a larger rig layout was needed and the surveying crew of 609 Consulting, LLC was asked to digitize the well site and access road. The following changes to the surveyor plat has been attached for your review and approval, along with the new surveyor plat and maps totaling eleven (11) pages.

If any questions arise, please do not hesitate contacting the undersigned or our superintendent in our Price Field Office, Jim Hartley at 435-637-3044 or our Drilling Engineer in our Denver Office, Grant Schluender at 720-929-6557 or cell: 303-547-4434. I thank you in advance for your cooperation in these matters.

KMGO&GOLP Bond No.

NAME (PLEASE PRINT) Debby J. Black TITLE Staff Regulatory Analyst
SIGNATURE *Debby J. Black* DATE September 4, 2008

(This space for State use only)

Approved by the
Utah Division of
Oil, Gas and Mining

RECEIVED

SEP 09 2008

DIV. OF OIL, GAS & MINING

5/2000

COPY SENT TO OPERATOR

Date: 9.17.2008

Initials: KS

Date: 09-16-08

By: *[Signature]*

Wellington Federal 31-30 SWD, NWNE Section 30: Township 14 South - Range 11 East, Carbon County, Utah attached to and made a part of the sundry dated September 4, 2008

Uintah Engineering Survey dated 1-4-08

Page 1 Plat

Notable Changes From:

Footages: 731' FNL, 2332' FEL

Elev. Ungraded Ground = 5645'

NAD 83: Lat: 39.584151 °N Long: 110.729400 °W

NAD 27: Lat: 39.584185 °N Long: 110.7728887 °W

609 Consulting, LLC - New Digital Survey Plats and Maps dated 7-11-08

Page 1 Plat

Notable Changes To:

Footages: 731' FNL, 2333' FEL

Elev. Ungraded Ground = 5647'

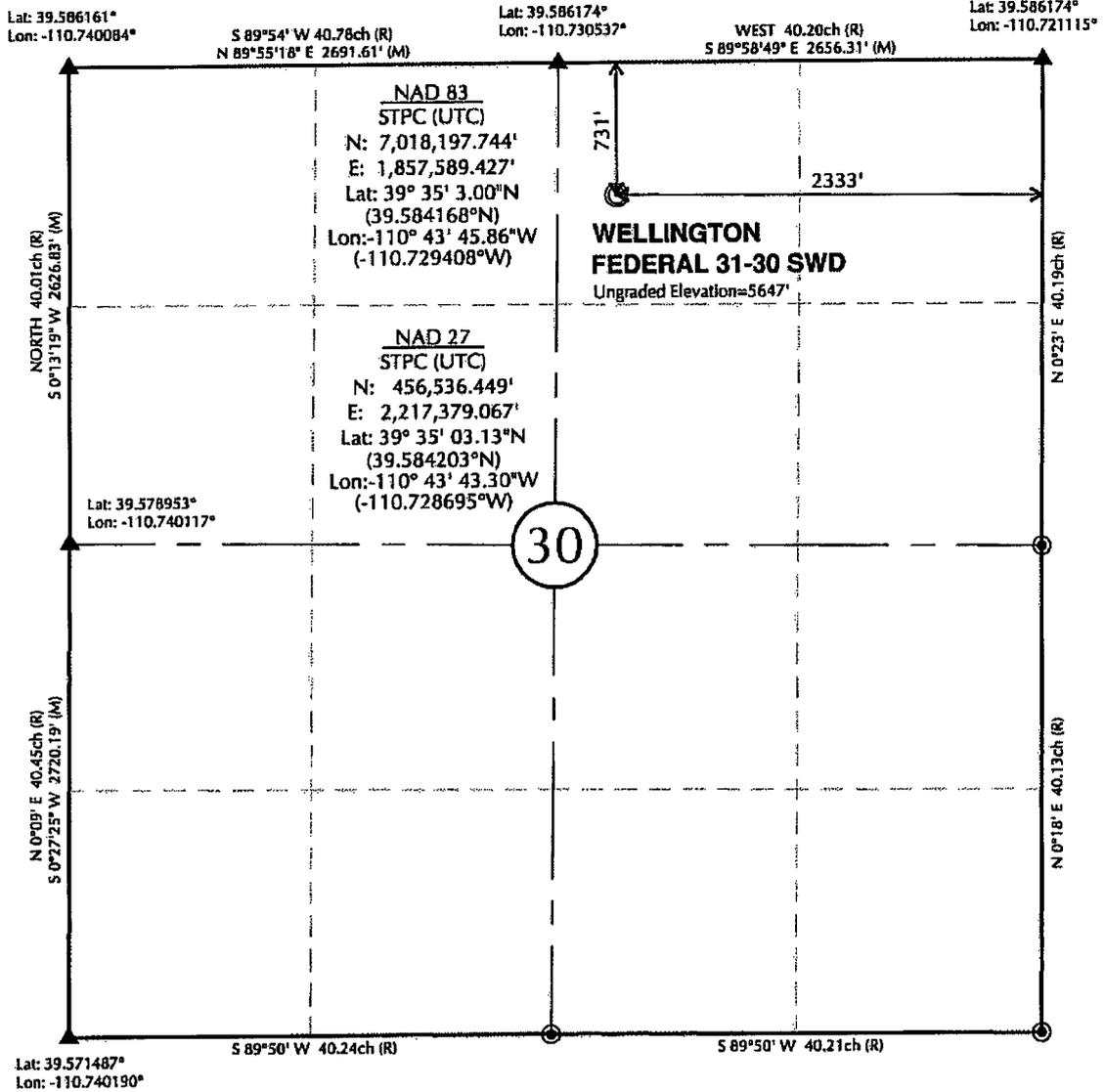
NAD 83: Lat: 39.584168 °N Long: -110.729408 °W

NAD 27: Lat: 39.584203 °N Long: -110.728695 °W

Additional Detailed Pages equally eleven (11) Total

R. 11 E.

T.
14
S.



CERTIFICATE OF SURVEYOR:

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

Robert Fehringer
PR. R. FEHRINGER
REGISTERED LAND SURVEYOR
REGISTRATION No. 163167
STATE OF UTAH

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

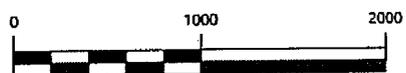
**WELLINGTON FEDERAL 31-30 SWD
WELL PLAT**
731' FNL, 2333' FEL
NW1/4NE1/4, SECTION 30, T.14S., R.11E.
S.L.M., CARBON COUNTY, UTAH



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

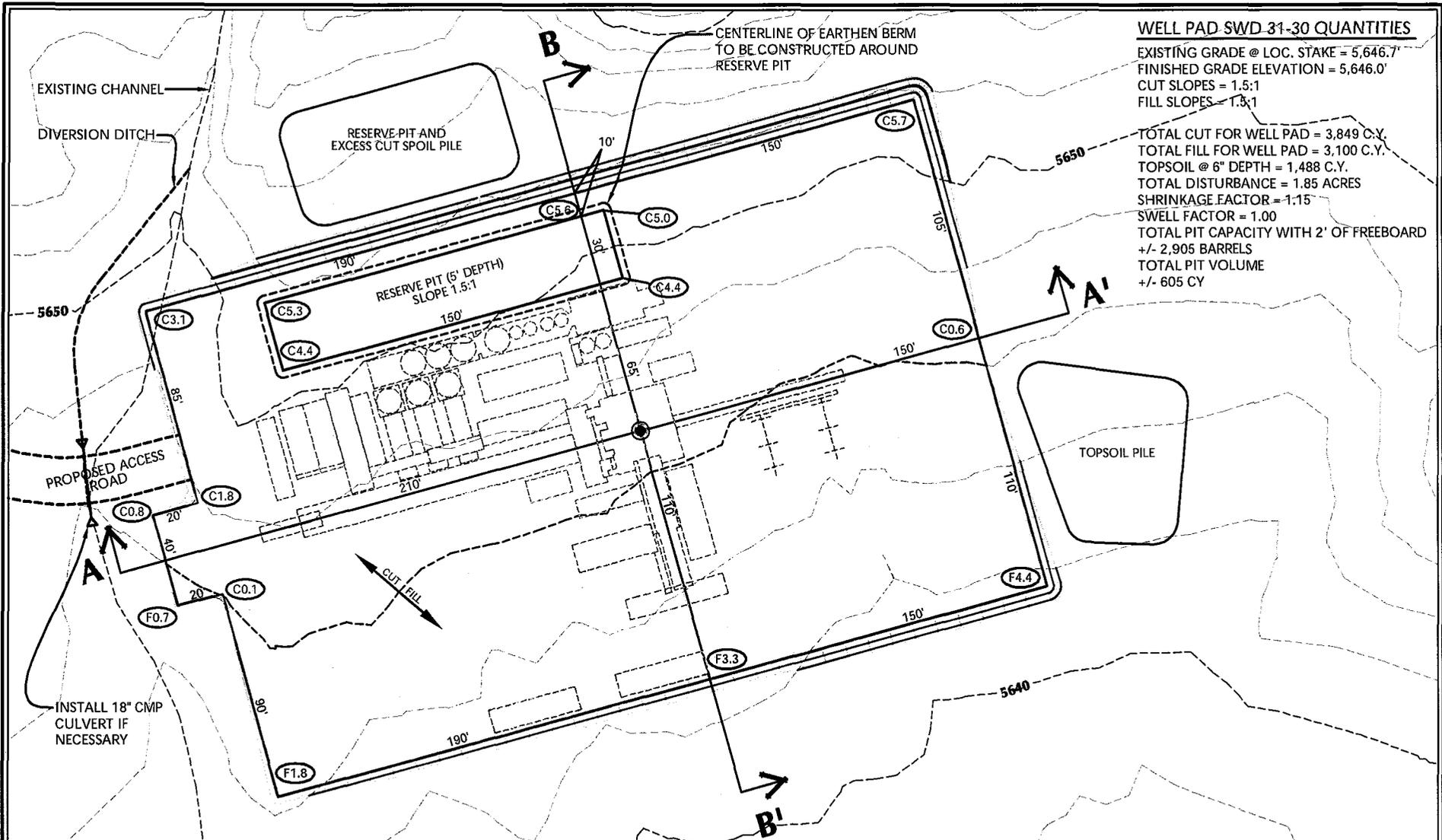
NOTES:

- ▲ INDICATES FOUND BLM BRASS CAP
- INDICATES CALCULATED CORNER POSITION FROM RECORD
- ELEVATION BASED NAVD88 (GEOID03)
- BASIS OF BEARING IS WGS84
- ALL COORDINATES DERIVED FROM AUTONOMOUS GPS SURVEY



HORIZONTAL
SCALE: 1" = 1000'

Scale: 1"=1000'	Date: 7/11/08	SHEET NO:
REVISED:	BY DATE	1 1 OF 9



WELL PAD SWD 31-30 QUANTITIES
 EXISTING GRADE @ LOC. STAKE = 5,646.7'
 FINISHED GRADE ELEVATION = 5,646.0'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.3:1
 TOTAL CUT FOR WELL PAD = 3,849 C.Y.
 TOTAL FILL FOR WELL PAD = 3,100 C.Y.
 TOPSOIL @ 6" DEPTH = 1,488 C.Y.
 TOTAL DISTURBANCE = 1.85 ACRES
 SHRINKAGE FACTOR = 1.15"
 SWELL FACTOR = 1.00
 TOTAL PIT CAPACITY WITH 2' OF FREEBOARD
 +/- 2,905 BARRELS
 TOTAL PIT VOLUME
 +/- 605 CY

**KERR-MCGEE OIL & GAS
 ONSHORE L.P.**

1099 18th Street - Denver, Colorado 80202

**WELLINGTON FEDERAL 31-30 SWD
 WELL PAD - LOCATION LAYOUT**
 731' FNL, 2333' FEL
 NW1/4NE1/4, SECTION 30, T.14S., R.11E.
 S.L.M., CARBON COUNTY, UTAH



CONSULTING, LLC
 371 Coffeen Avenue
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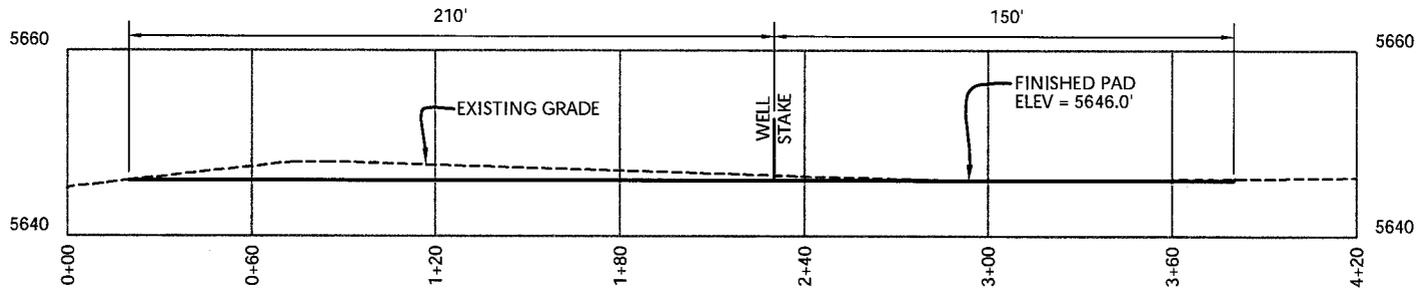
WELL PAD LEGEND

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

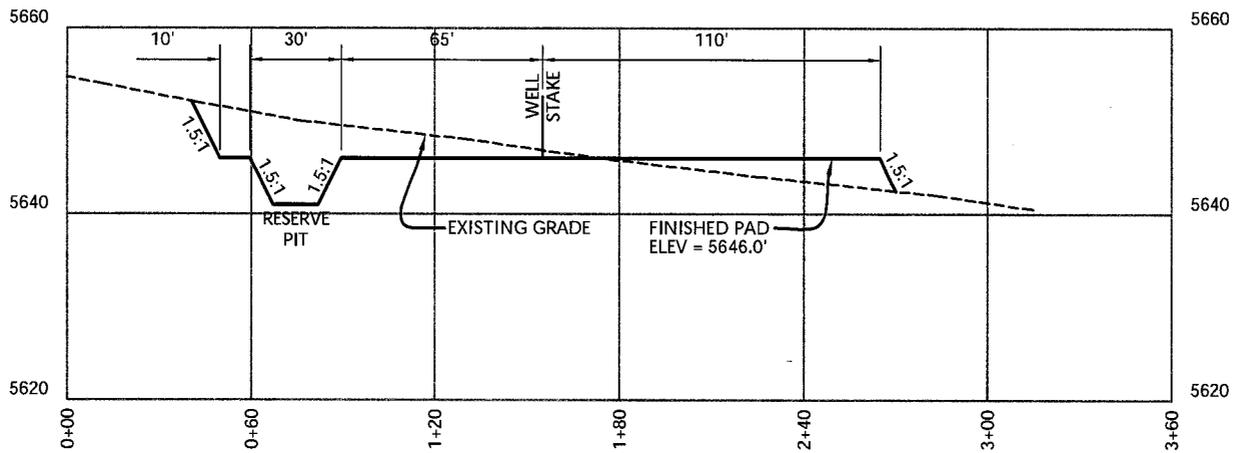


HORIZONTAL 1" = 60'
 2' CONTOURS

Scale: 1"=60'	Date: 07/11/08	SHEET NO:
REVISED:	BY DATE	2 2 OF 9



CROSS SECTION - A-A'



CROSS SECTION - B-B'

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ONSHORE L.P.**

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371 Coffeen Avenue
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Phone 307-674-0609
Fax 307-674-0182

**WELLINGTON FEDERAL 31-30 SWD
WELL PAD - CROSS SECTIONS**
731' FNL, 2333' FEL
NW1/4NE1/4, SECTION 30, T.14S., R.11E.
S.L.M., CARBON COUNTY, UTAH

Scale: 1"=60'

Date: 07/11/08

SHEET NO:

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3 OF 9

REVISED:

BY
DATE





PHOTOGRAPH OF WELLINGTON FEDERAL 31-30 SWD WELL LOCATION - CAMERA ANGLE WEST



PHOTOGRAPH OF WELLINGTON FEDERAL 31-30 SWD WELL LOCATION - CAMERA ANGLE NORTH

**KERR-MCGEE OIL & GAS
ONSHORE L.P.**

1099 18th Street, - Denver, Colorado 80202

**WELLINGTON FEDERAL 31-30 SWD
LOCATION PHOTOGRAPHS
731' FNL, 2333' FEL
NW1/4NE1/4, SECTION 30, T.14S., R.11E.
S.L.M., CARBON COUNTY, UTAH**



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371 Coffeen Avenue
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Fax 307-674-0182

Scale:	NTS	Date:	07/11/08	SHEET NO:	4
REVISED:		BY	DATE	4 OF 9	



PHOTOGRAPH OF WELLINGTON FEDERAL 31-30 SWD WELL LOCATION - CAMERA ANGLE SOUTH



PHOTOGRAPH OF WELLINGTON FEDERAL 31-30 SWD WELL LOCATION - CAMERA ANGLE EAST

KERR-MCGEE OIL & GAS
ONSHORE L.P.

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WELLINGTON FEDERAL 31-30 SWD
LOCATION PHOTOGRAPHS
731' FNL, 2333' FEL
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Scale: NTS	Date: 07/11/08	SHEET NO:
REVISED:	BY DATE	4A 4A OF 9



PHOTOGRAPH OF PROPOSED ACCESS TO THE WELLINGTON FEDERAL 31-30 SWD WELL LOCATION - CAMERA ANGLE EAST

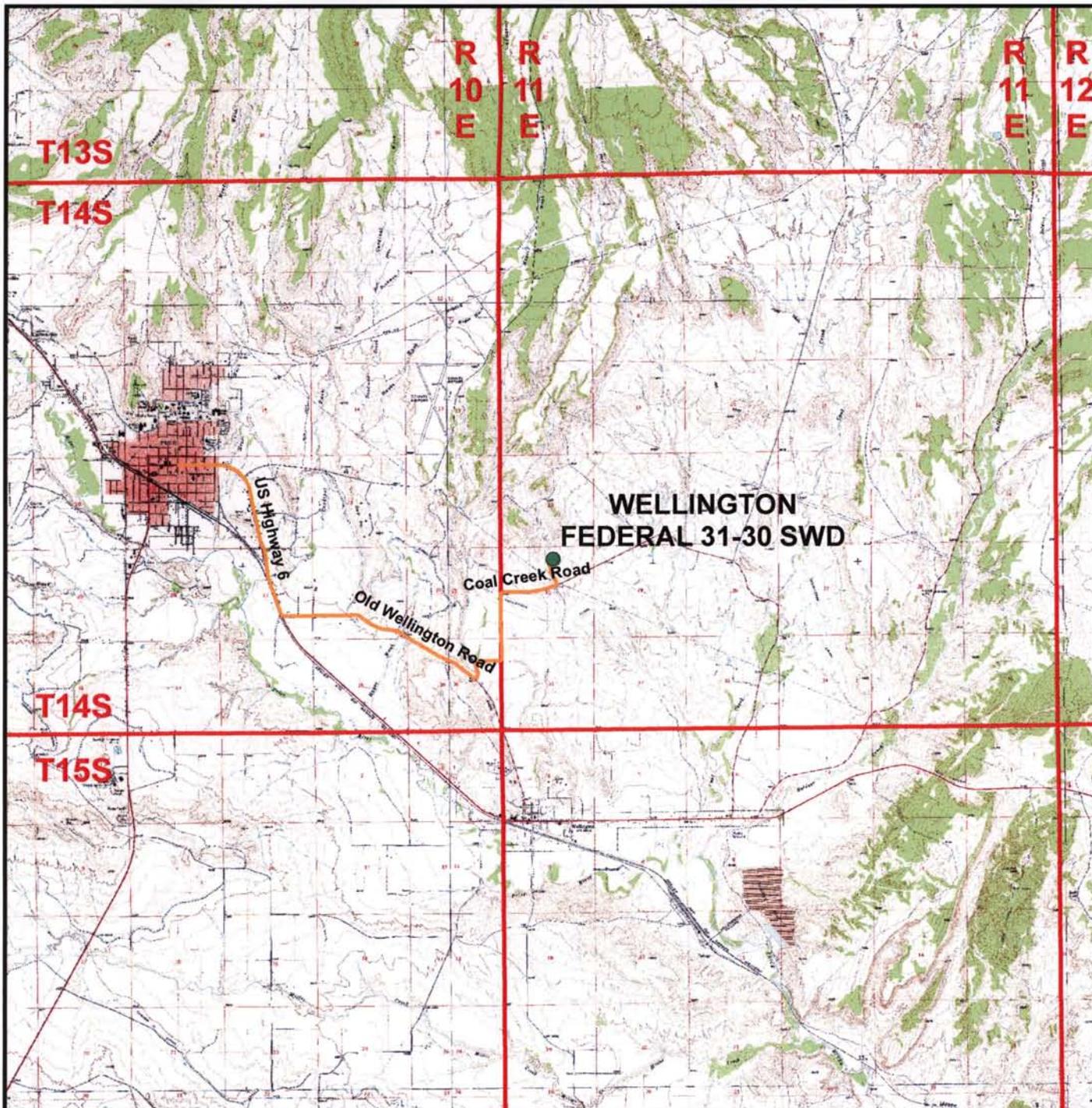
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WELLINGTON FEDERAL 31-30 SWD
 LOCATION PHOTOGRAPHS
 731' FNL, 2333' FEL
 NW1/4NE1/4, SECTION 30, T.14S., R.11E.
 S.L.M., CARBON COUNTY, UTAH

Scale: NTS	Date: 07/11/08	SHEET NO:
REVISED:	BY DATE	4B 4B OF 9



Legend

- Proposed Wellington Federal 31-30 SWD Well Location
- Access Route - Proposed

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

Wellington Federal 31-30 SWD
 Topo A

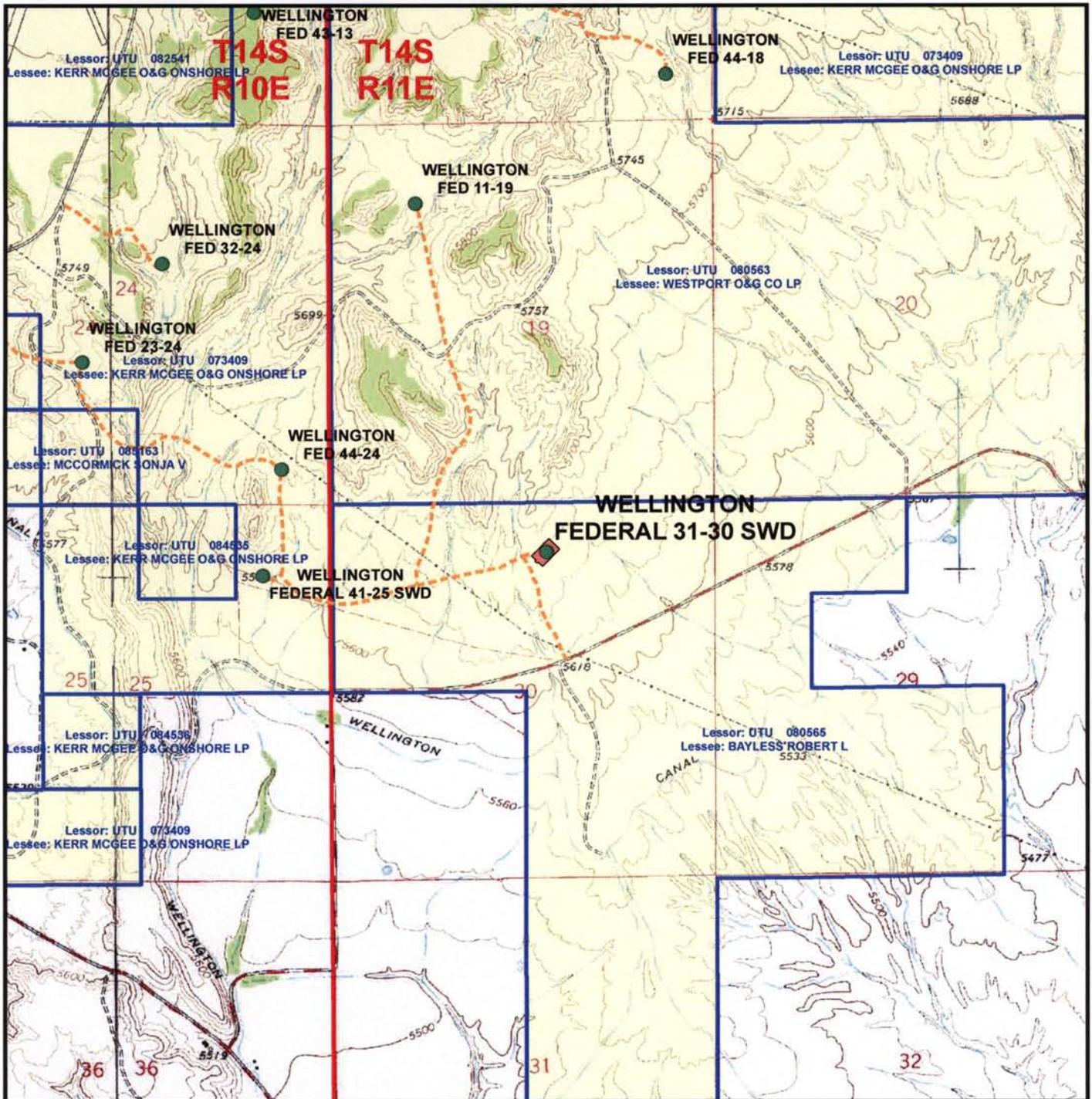
731' FNL, 2333' FEL
 NW¼ NE¼, Section 30, T14S, R11E
 S.L.M., Carbon County, Utah



CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 673-0036
 Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 11 July 2008	5
Revised:	Date:	



Legend

- Well - Proposed
- Well Pad
- Access Road - Proposed
- APC Lease

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

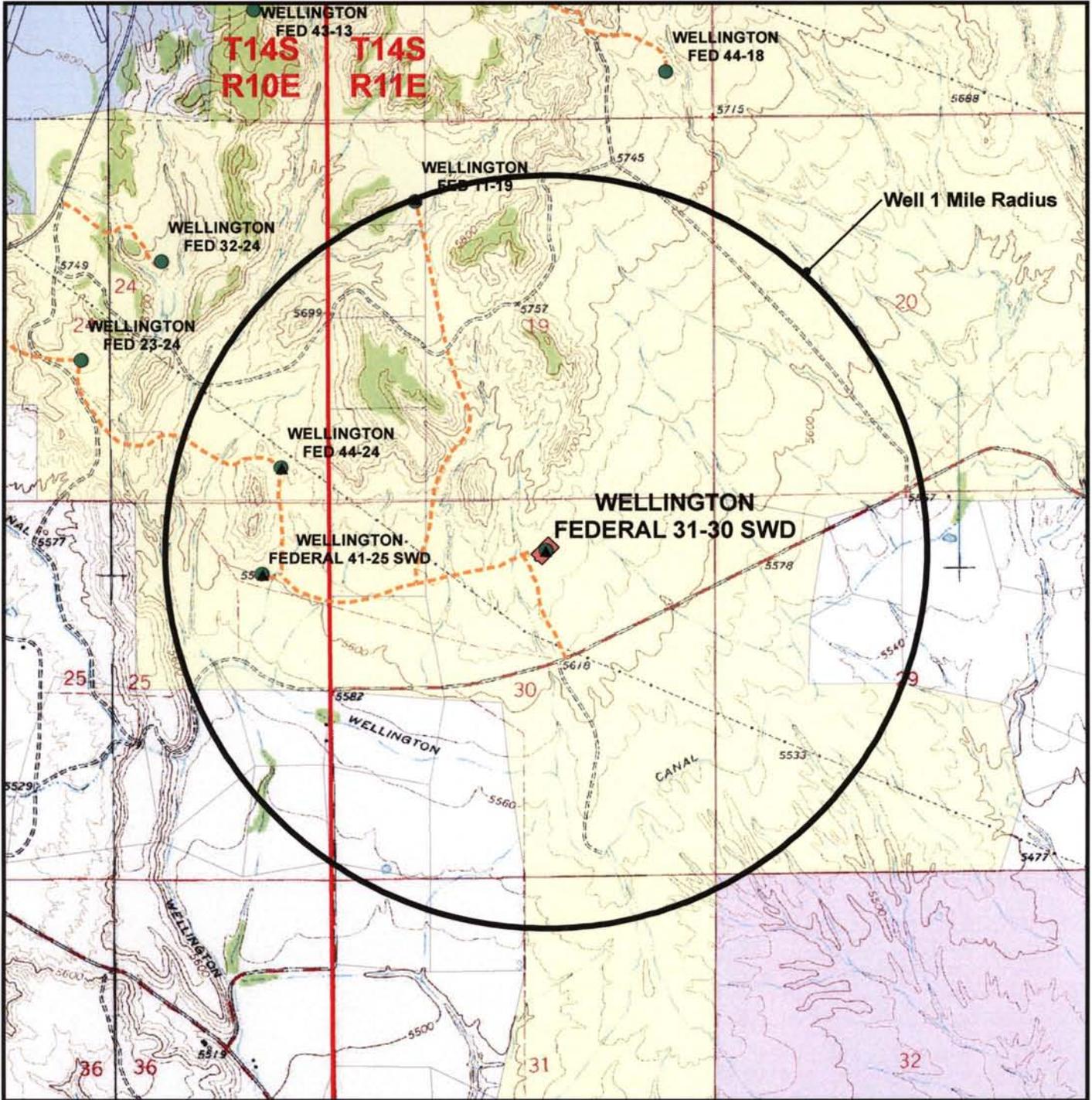
Wellington Federal 31-30 SWD
Topo B
 731' FNL, 2333' FEL
 NW¼ NE¼, Section 30, T14S, R11E
 S.L.M., Carbon County, Utah



CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 673-0036
 Fax (307) 674-0182



Scale: 1" = 2000ft	NAD83 USP Centra	Sheet No:	
Drawn: JELo	Date: 4 Sept 2008	6	6 of 9
Revised:	Date:		



Legend

- Well - Proposed
- Well Pad
- Well - 1 Mile Radius
- ▲ Approved permit (APD); not yet spudded
- Access Road - Proposed
- Private Surface Ownership
- BLM Surface Ownership
- State of Utah Surface Ownership
- Carbon County Surface Ownership

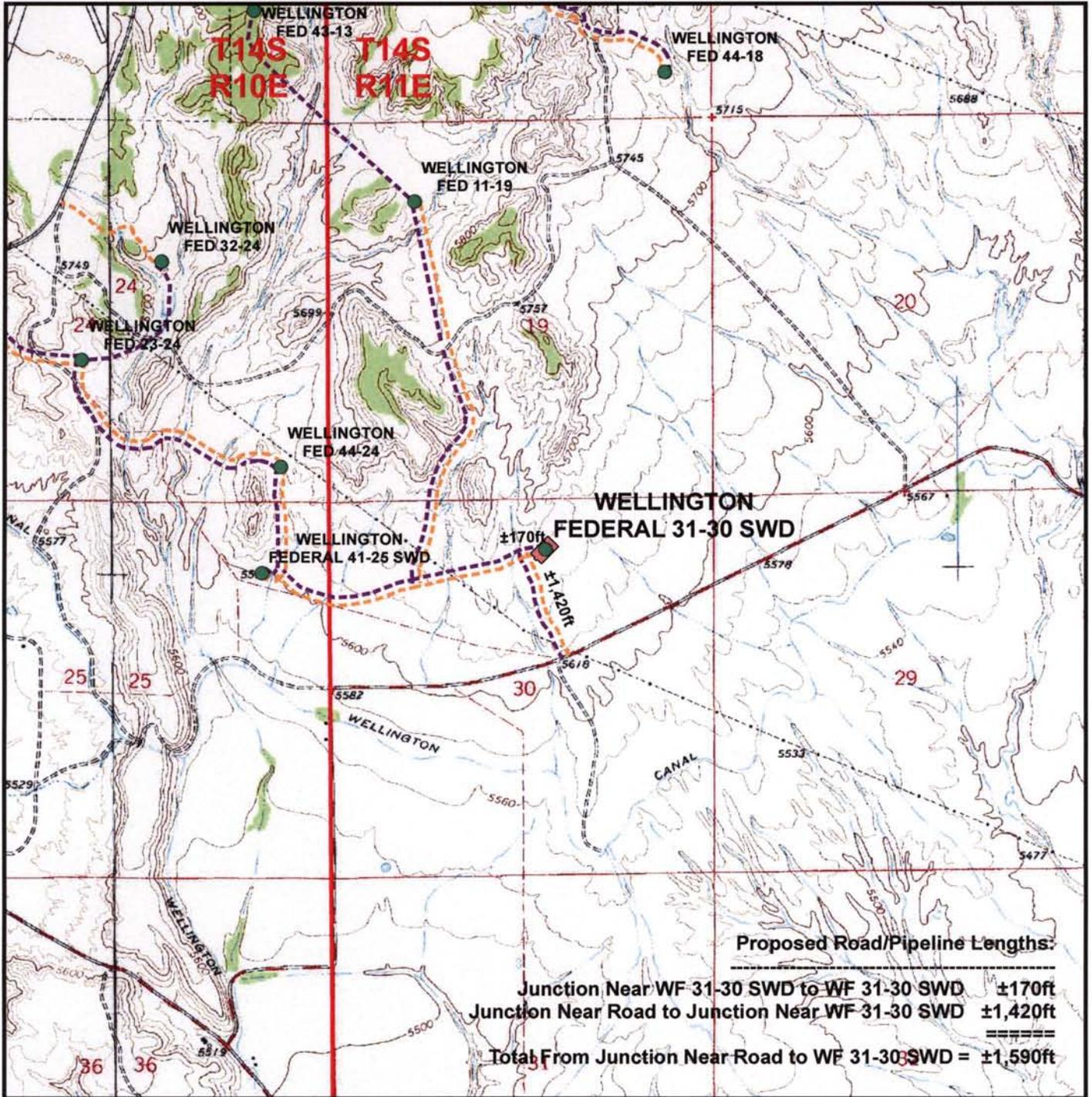
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

Wellington Federal 31-30 SWD
Topo C
 731' FNL, 2333' FEL
 NW¼ NE¼, Section 30, T14S, R11E
 S.L.M., Carbon County, Utah

609
CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 673-0036
 Fax (307) 674-0182



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 11 July 2008	7
Revised:	Date:	7 of 9



Legend

- Well - Proposed
- Well Pad
- Pipeline - Proposed
- - - Access Road - Proposed

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

Wellington Federal 31-30 SWD
Topo D
 731' FNL, 2333' FEL
 NW¼ NE¼, Section 30, T14S, R11E
 S.L.M., Carbon County, Utah



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 371 Coffeen Avenue
 Sheridan, WY 82801
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Scale: 1" = 2000ft
 NAD83 USP Central
 Drawn: JELo
 Revised: Date: 11 July 2008

Sheet No:
8
 8 of 9

**Kerr-McGee Oil & Gas Onshore, LP
WELLINGTON FEDERAL 31-30 SWD
SECTION 30, T14S, R11E, S.L.M.**

PROCEED IN AN EASTERLY DIRECTION FROM PRICE, UTAH, ALONG U.S. HIGHWAY 6, GRADUALLY CHANGING TO SOUTHERLY APPROXIMATELY 2.4 MILES TO THE JUNCTION OF U.S. HIGHWAY 6 AND THE OLD WELLINGTON ROAD; EXIT LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 2.3 MILES TO THE JUNCTION OF THE OLD WELLINGTON ROAD AND COAL CREEK ROAD; EXIT LEFT AND PROCEED IN A NORTHERLY DIRECTION, GRADUALLY CHANGING TO EASTERLY APPROXIMATELY 1.8 MILES TO THE JUNCTION OF COAL CREEK ROAD AND THE PROPOSED ACCESS ROAD FOR THEWELLINGTON FEDERAL 31-30 SWD AND WELLINGTON FEDERAL 41-25 SWD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.3 MILES, FOLLOWING THE ROAD FLAGS, TO THE JUNCTION OF THIS ROAD AND THE BEGINNING OF PROPOSED ACCESS ROAD FOR THE WELLINGTON FEDERAL 31-30 SWD; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.1 MILES, FOLLOWING THE ROAD FLAGS, TO THE JUNCTION OF THIS ROAD AND THE PROPOSED WELLINGTON FEDERAL 31-30 SWD WELL LOCATION.

TOTAL DISTANCE FROM PRICE, UTAH, TO THE PROPOSED WELLINGTON FEDERAL 31-30 SWD WELL LOCATION IS APPROXIMATELY 6.9 MILES.



Kerr-McGee Oil & Gas Onshore, L. P.
1099 18th Street
Denver, CO 80202
720-929-6000

September 15, 2008

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, UT 84114-5801

Attention: Brad Hill

RE: Exception Location – Rule R649-3-3
Wellington Federal 31-30 SWD
New Digital Plats-Maps Survey (Revised Footages)
NWNE Section 30: T14S-R11E
Carbon County, Utah

Dear Mr. Hill:

In reference to Utah Oil and Gas Conservation Rule R649-3-3, the **Wellington Federal 31-30 SWD, API 43-007-31375** is an exception location due to topography. There are no additional lease owners within 460' of the proposed location.

I thank you in advance for your consideration and cooperation. If you have any questions concerning this matter, please contact the undersigned.

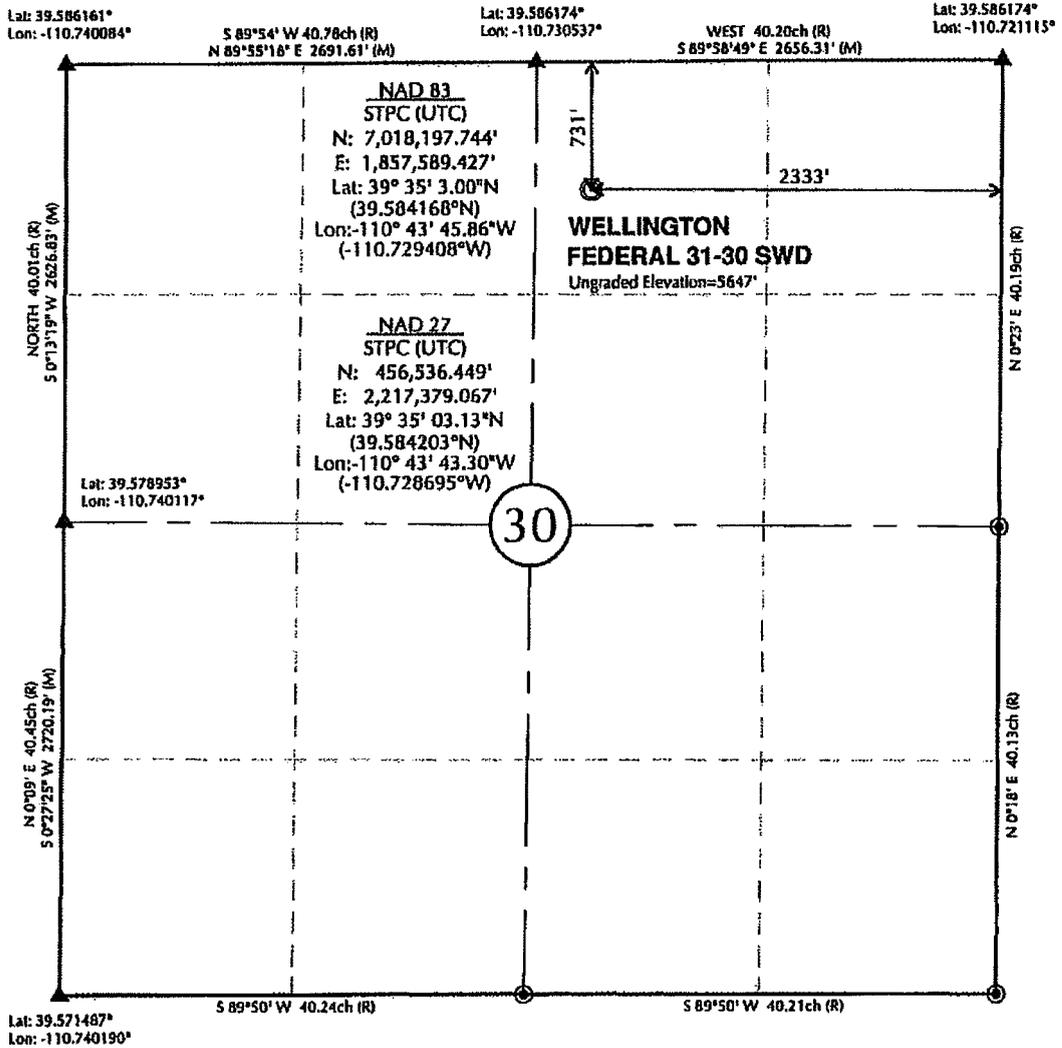
Sincerely,
KERR-McGEE OIL & GAS ONSHORE, L. P.
A wholly-owned subsidiary of Anadarko Petroleum Corporation

A handwritten signature in cursive script that reads 'Debby J. Black'.

Debby J. Black
Staff Regulatory Analyst
720-929-6472
Debby.Black@anadarko.com

R. 11 E.

T.
14
S.



CERTIFICATE OF SURVEYOR

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

Robert Ferringer
ROBERT FERRINGER
 REGISTERED LAND SURVEYOR
 REGISTRATION No. 163167
 STATE OF UTAH
 7-17-08

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

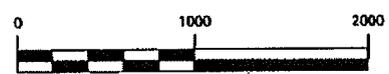
**WELLINGTON FEDERAL 31-30 SWD
WELL PLAT**
 731' FNL, 2333' FEL
 NW1/4NE1/4, SECTION 30, T.14S., R.11E.
 S.L.M., CARBON COUNTY, UTAH



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

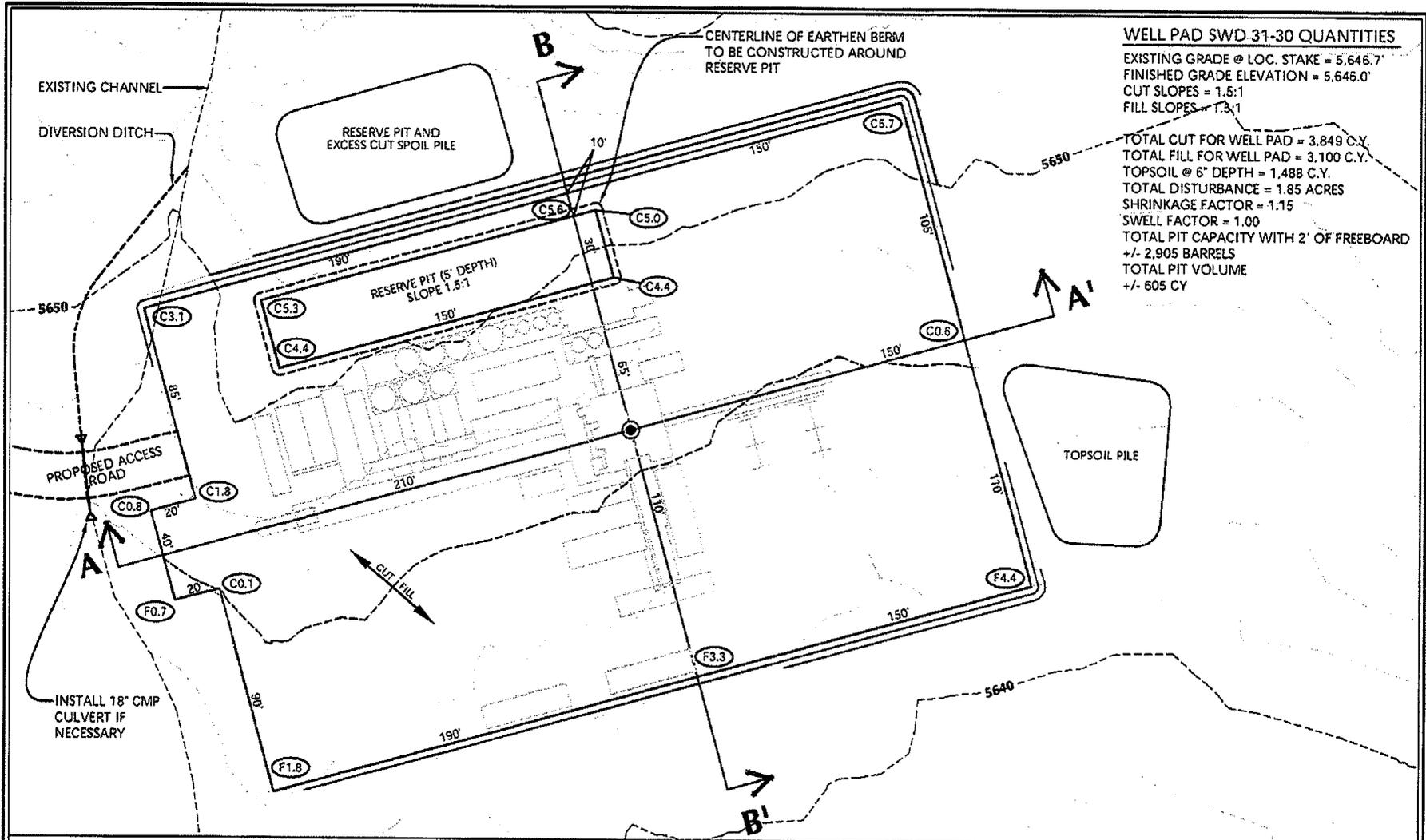
NOTES:

- ▲ INDICATES FOUND BLM BRASS CAP
- ⊙ INDICATES CALCULATED CORNER POSITION FROM RECORD
- ELEVATION BASED NAVD83 (GEOID03)
- BASIS OF BEARING IS WGS84
- ALL COORDINATES DERIVED FROM AUTONOMOUS GPS SURVEY



HORIZONTAL SCALE: 1" = 1000'

Scale: 1"=1000'	Date: 7/11/08	SHEET NO:
REVISED:	BY DATE	1
		1 OF 9



WELL PAD SWD 31-30 QUANTITIES
 EXISTING GRADE @ LOC. STAKE = 5,646.7'
 FINISHED GRADE ELEVATION = 5,646.0'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.3:1
 TOTAL CUT FOR WELL PAD = 3,849 C.Y.
 TOTAL FILL FOR WELL PAD = 3,100 C.Y.
 TOPSOIL @ 6" DEPTH = 1,488 C.Y.
 TOTAL DISTURBANCE = 1.85 ACRES
 SHRINKAGE FACTOR = 1.15
 SWELL FACTOR = 1.00
 TOTAL PIT CAPACITY WITH 2' OF FREEBOARD
 +/- 2,905 BARRELS
 TOTAL PIT VOLUME
 +/- 605 CY

KERR-MCGEE OIL & GAS
ONSHORE L.P.
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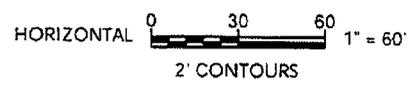
WELLINGTON FEDERAL 31-30 SWD
WELL PAD - LOCATION LAYOUT
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 S.L.M., CARBON COUNTY, UTAH



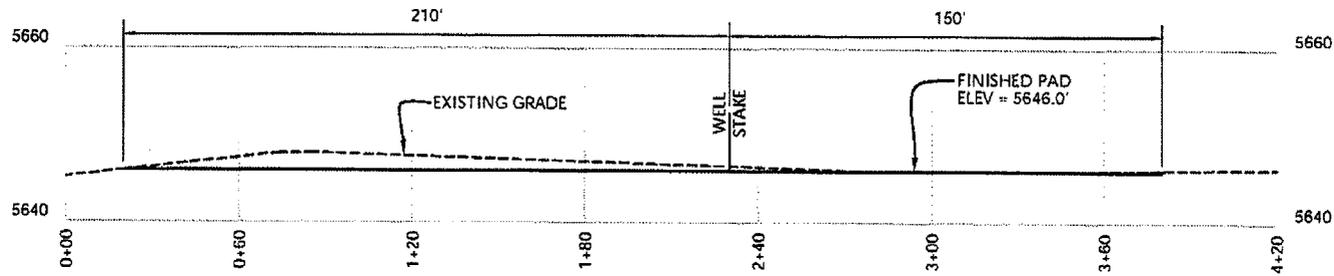
CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

WELL PAD LEGEND

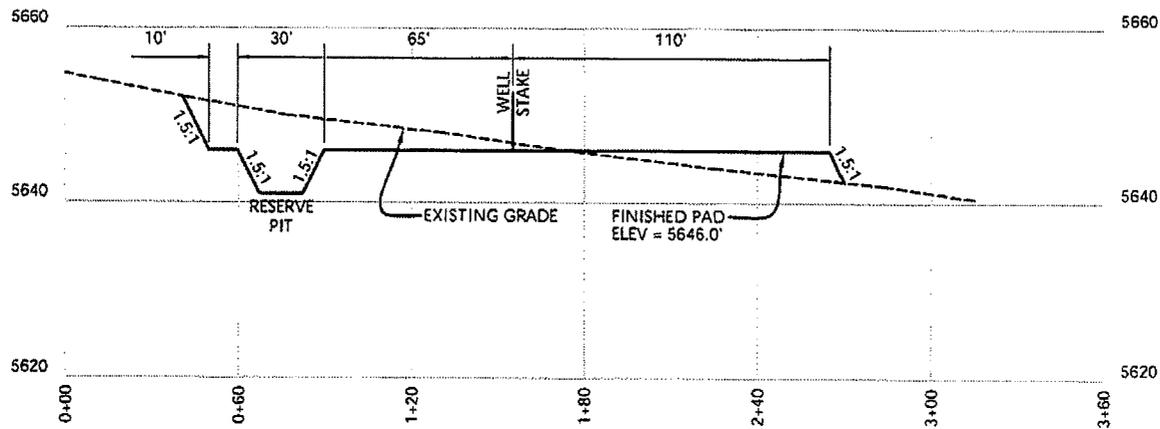
- WELL LOCATION
- - - EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)



Scale: 1"=60'	Date: 07/11/08	SHEET NO:
REVISED:	BY DATE	2 2 OF 9



CROSS SECTION - A-A'



CROSS SECTION - B-B'

**KERR-MCGEE OIL & GAS
ONSHORE L.P.**

1099 18th Street - Denver, Colorado 80202

**WELLINGTON FEDERAL 31-30 SWD
WELL PAD - CROSS SECTIONS
731' FNL, 2333' FEL
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S.L.M., CARBON COUNTY, UTAH**



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Scale: 1"=60'	Date: 07/11/08	SHEET NO:
REVISED:	BY DATE	3 3 OF 9





PHOTOGRAPH OF WELLINGTON FEDERAL 31-30 SWD WELL LOCATION - CAMERA ANGLE WEST



PHOTOGRAPH OF WELLINGTON FEDERAL 31-30 SWD WELL LOCATION - CAMERA ANGLE NORTH

KERR-MCGEE OIL & GAS
ONSHORE L.P.

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WELLINGTON FEDERAL 31-30 SWD
LOCATION PHOTOGRAPHS
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S.L.M., CARBON COUNTY, UTAH

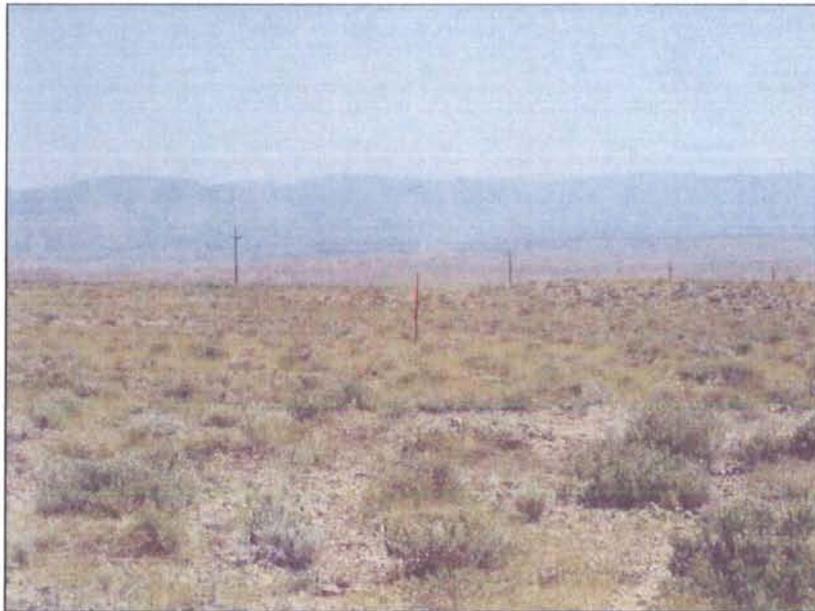


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Scale: NTS	Date: 07/11/08	SHEET NO:
REVISID:	BY DATE	4 4 OF 9



PHOTOGRAPH OF WELLINGTON FEDERAL 31-30 SWD WELL LOCATION - CAMERA ANGLE SOUTH



PHOTOGRAPH OF WELLINGTON FEDERAL 31-30 SWD WELL LOCATION - CAMERA ANGLE EAST

KERR-MCGEE OIL & GAS
ONSHORE L.P.

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WELLINGTON FEDERAL 31-30 SWD
LOCATION PHOTOGRAPHS
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REVISED:	BY DATE	4A 4A OF 9



PHOTOGRAPH OF PROPOSED ACCESS TO THE WELLINGTON FEDERAL 31-30 SWD WELL LOCATION - CAMERA ANGLE EAST

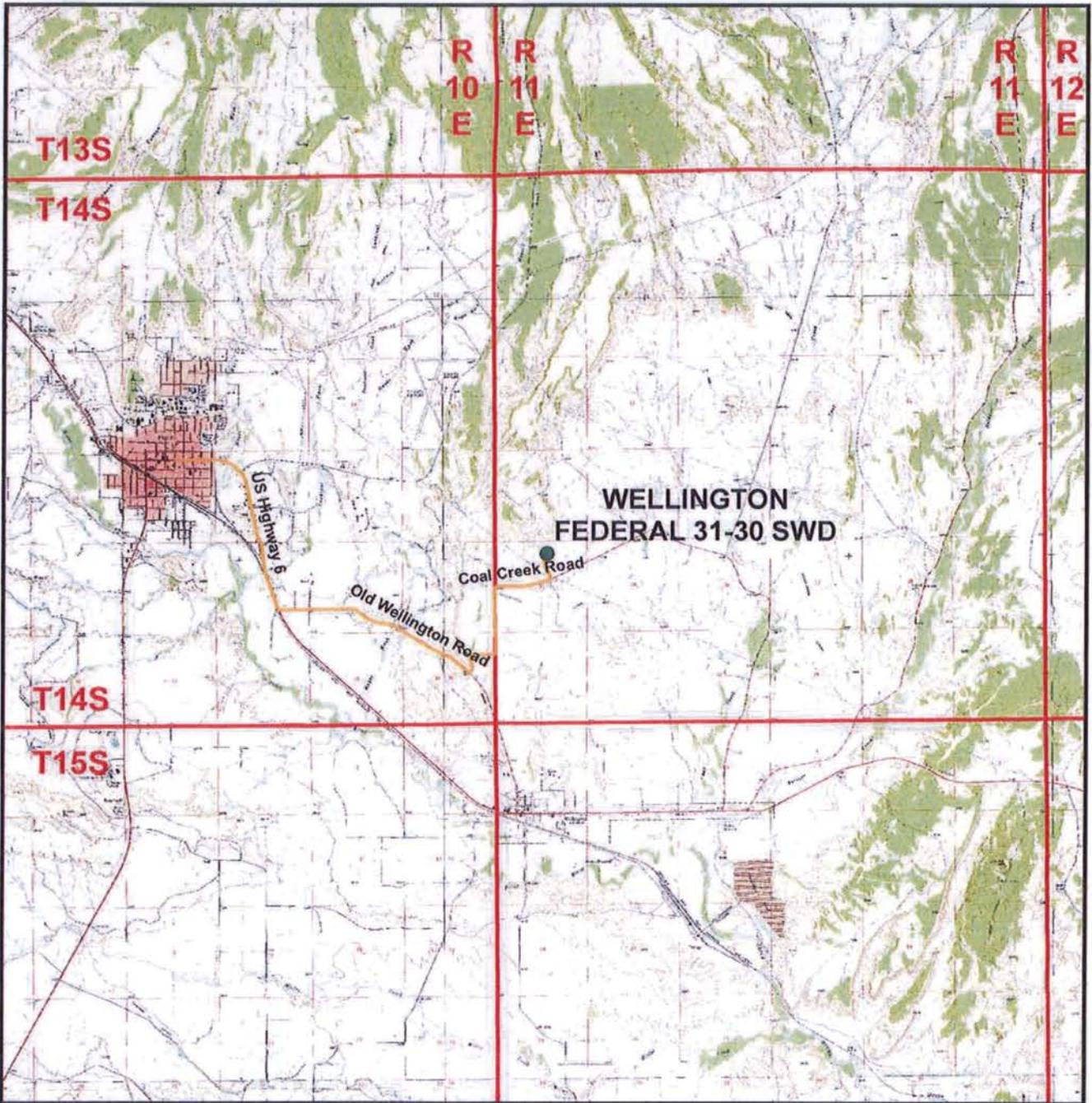
KERR-MCGEE OIL & GAS
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Scale:	NTS	Date:	07/11/08	SHEET NO:	4B
REVISED:		BY	DATE	4B OF 9	



Legend

- Proposed Wellington Federal 31-30 SWD Well Location
- Access Route - Proposed

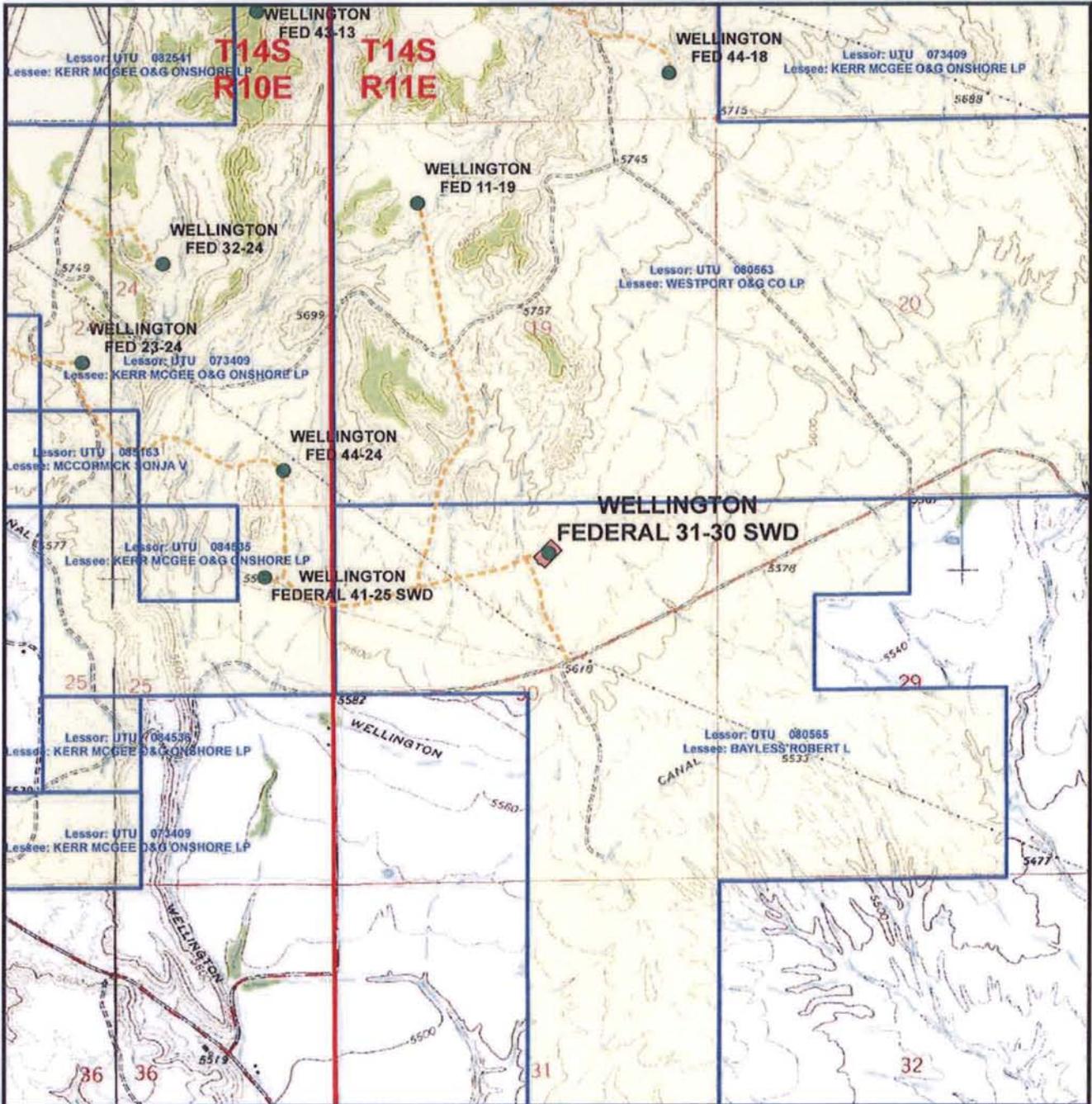
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

Wellington Federal 31-30 SWD
Topo A
 731' FNL, 2333' FEL
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 S.L.M., Carbon County, Utah

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Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 11 July 2008	5
Revised:	Date:	5 of 9



Legend

- Well - Proposed
- Well Pad
- Access Road - Proposed
- APC Lease

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

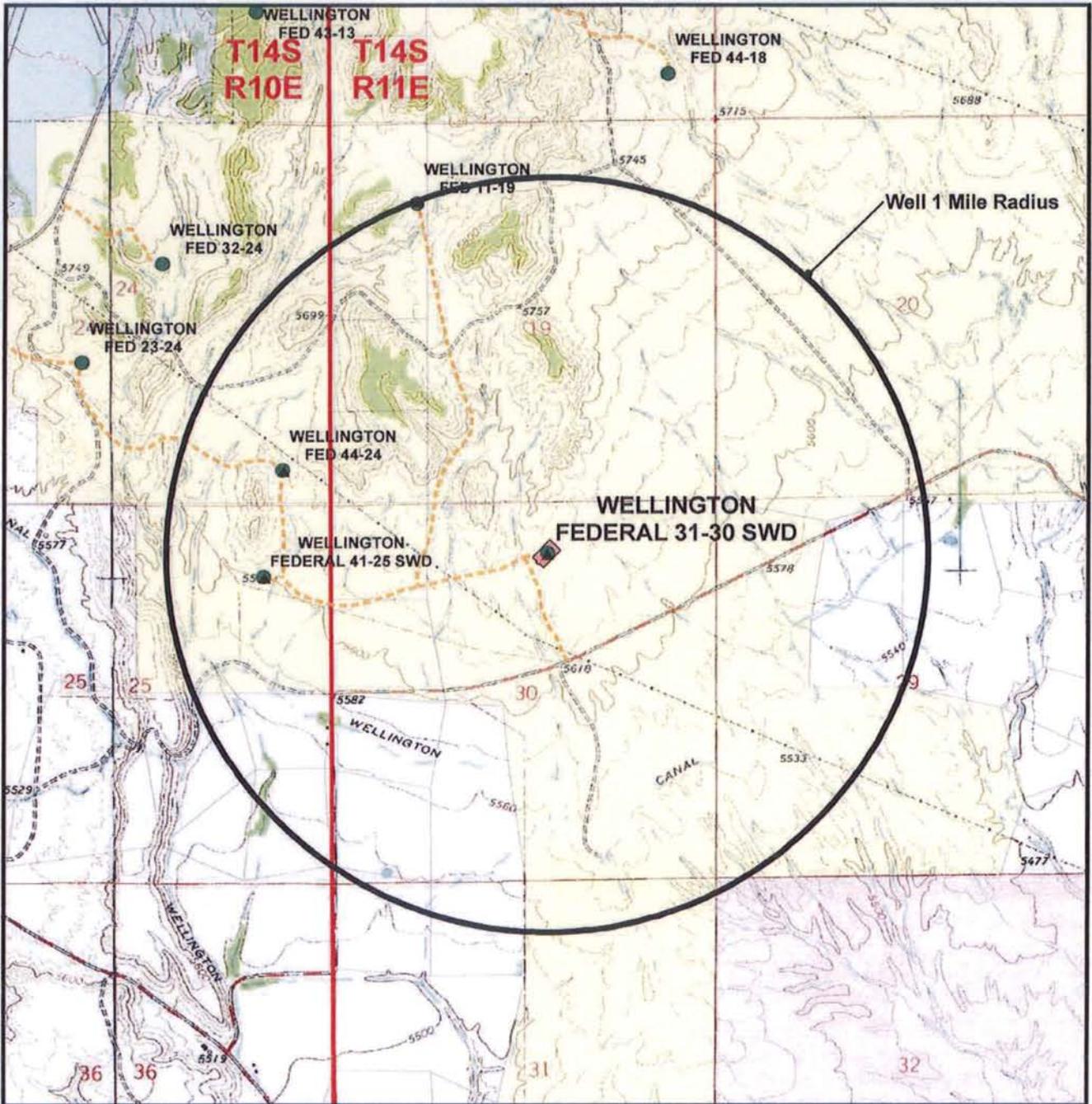
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Scale: 1" = 2000ft	NAD83 USP Centra	Sheet No:
Drawn: JELo	Date: 4 Sept 2008	6
Revised:	Date:	6 of 9



Legend

- Well - Proposed
- Well Pad
- Well - 1 Mile Radius
- ▲ Approved permit (APD); not yet spudded
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- State of Utah Surface Ownership
- Carbon County Surface Ownership

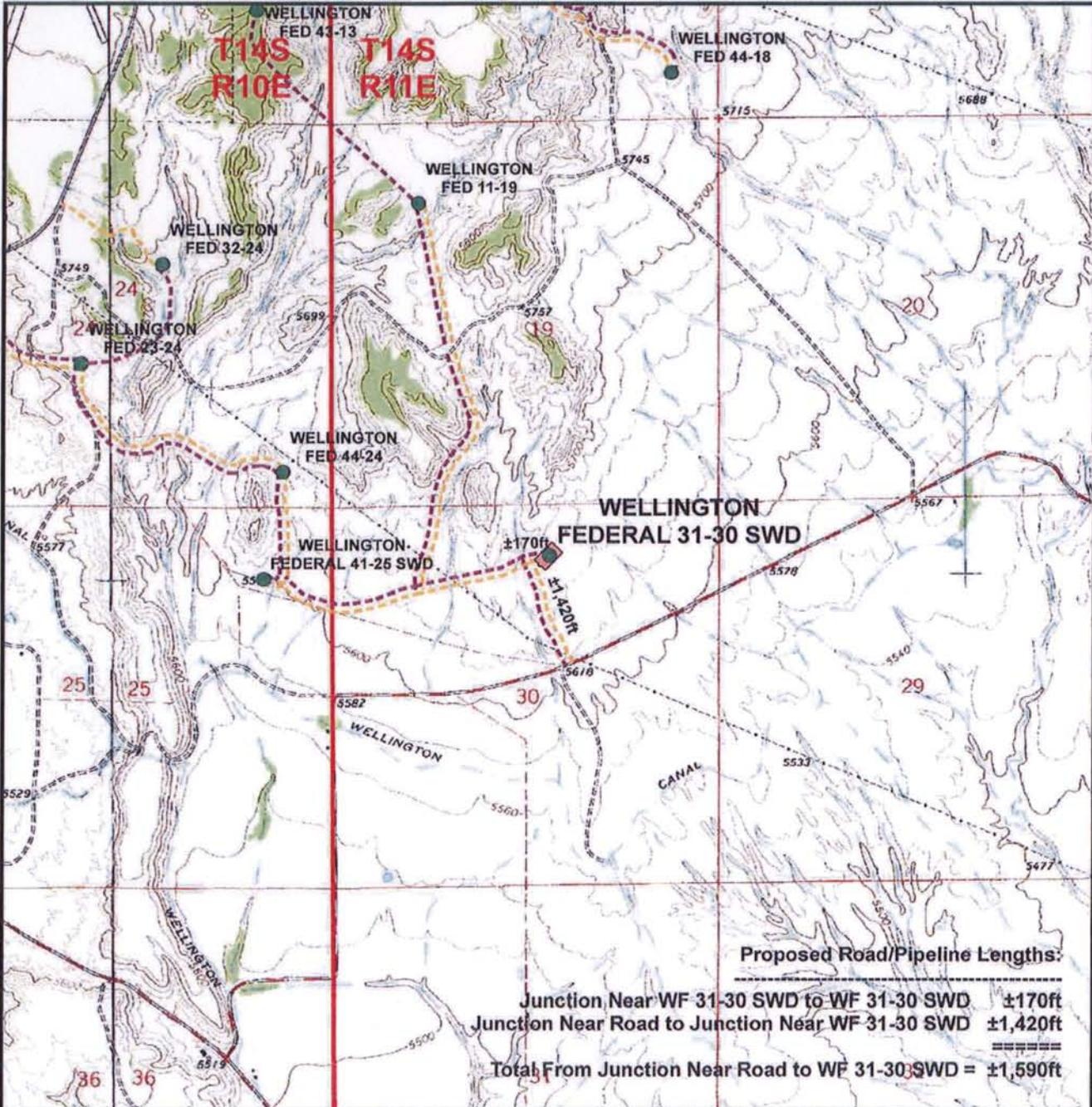
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

Wellington Federal 31-30 SWD
Topo C
 731' FNL, 2333' FEL
 NW¼ NE¼, Section 30, T14S, R11E
 S.L.M., Carbon County, Utah

CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 673-0036
 Fax (307) 674-0182



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 11 July 2008	7
Revised:	Date:	7 of 9



Legend

- Well - Proposed
- Well Pad
- Pipeline - Proposed
- Access Road - Proposed

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

Wellington Federal 31-30 SWD
Topo D
731' FNL, 2333' FEL
NW¼ NE¼, Section 30, T14S, R11E
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Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 11 July 2008	8
Revised:	Date:	8 of 9

**Kerr-McGee Oil & Gas Onshore, LP
WELLINGTON FEDERAL 31-30 SWD
SECTION 30, T14S, R11E, S.L.M.**

PROCEED IN AN EASTERLY DIRECTION FROM PRICE, UTAH, ALONG U.S. HIGHWAY 6, GRADUALLY CHANGING TO SOUTHERLY APPROXIMATELY 2.4 MILES TO THE JUNCTION OF U.S. HIGHWAY 6 AND THE OLD WELLINGTON ROAD; EXIT LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 2.3 MILES TO THE JUNCTION OF THE OLD WELLINGTON ROAD AND COAL CREEK ROAD; EXIT LEFT AND PROCEED IN A NORTHERLY DIRECTION, GRADUALLY CHANGING TO EASTERLY APPROXIMATELY 1.8 MILES TO THE JUNCTION OF COAL CREEK ROAD AND THE PROPOSED ACCESS ROAD FOR THE WELLINGTON FEDERAL 31-30 SWD AND WELLINGTON FEDERAL 41-25 SWD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.3 MILES, FOLLOWING THE ROAD FLAGS, TO THE JUNCTION OF THIS ROAD AND THE BEGINNING OF PROPOSED ACCESS ROAD FOR THE WELLINGTON FEDERAL 31-30 SWD; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.1 MILES, FOLLOWING THE ROAD FLAGS, TO THE JUNCTION OF THIS ROAD AND THE PROPOSED WELLINGTON FEDERAL 31-30 SWD WELL LOCATION.

TOTAL DISTANCE FROM PRICE, UTAH, TO THE PROPOSED WELLINGTON FEDERAL 31-30 SWD WELL LOCATION IS APPROXIMATELY 6.9 MILES.

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

FORM 9

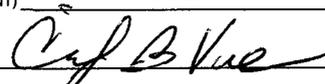
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080565
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
		7. UNIT or CA AGREEMENT NAME: N/A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>SALT WATER DISPOSAL</u>	8. WELL NAME and NUMBER: Wellington Federal 31-30SWD	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE LP		9. API NUMBER: 4300731375
3. ADDRESS OF OPERATOR: 1099 18TH ST. STE 1800 CITY DENVER STATE CO ZIP 80202	PHONE NUMBER: (720) 929-6832	10. FIELD AND POOL, OR WILDCAT: NAVAJO-WINGATE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 731' FNL, 2332' FEL LAT: 39.584151 LONG: 110.729400		COUNTY: CARBON
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 30 14S 11E		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 10/14/2008	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>WELL SPUD</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

WELLINGTON FEDERAL 31-30 SWD SPUD 10/14/2008 12:00 (RIG: SWS 2)

NAME (PLEASE PRINT) <u>CINDY B. VUE</u>	TITLE <u>REGULATORY ANALYST</u>
SIGNATURE 	DATE <u>10/16/2008</u>

(This space for State use only)

RECEIVED
OCT 20 2008
DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080565
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: N/A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>SWD</u>		7. UNIT or CA AGREEMENT NAME: N/A
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore LP		8. WELL NAME and NUMBER: Wellington Federal 31-30 SWD
3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		9. API NUMBER: 4300731375
4. LOCATION OF WELL FOOTAGES AT SURFACE: 731' FNL, 2332' FEL LAT: 39.584151 LONG: 110.729400		10. FIELD AND POOL, OR WILDCAT: Navajo-Wingate
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 30 14S 11E		COUNTY: CARBON
		STATE: UTAH

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

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

Kerr-McGee respectfully requests to use originally permitted rig Xtreme 2 to drill this SWD well. Sundry dated September 4, 2008 requesting to use a larger rig (HP298) is no longer necessary due to rig availability.

Attached is the Location Layout and Typical Cross Section documents for record. Thank you.

Per Don Stevens (BLM) & Debby Black (Kerr-McGee) by phone 10/16/08, Mr. Stevens gave his verbal approval on this rig.

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

Thank you, Cindy Vue

NAME (PLEASE PRINT) <u>Cindy B. Vue</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE <u><i>Cindy B. Vue</i></u>	DATE <u>10/16/2008</u>

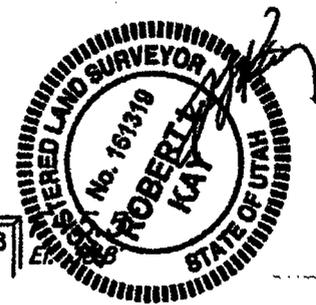
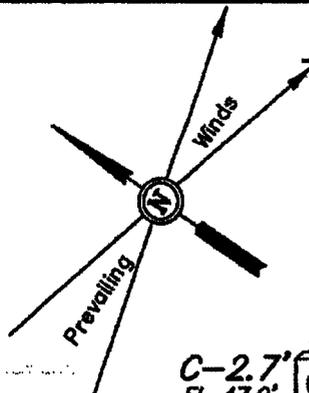
(This space for State use only)

**RECEIVED
OCT 20 2008**

Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

LOCATION LAYOUT FOR
 WELLINGTON FEDERAL #31-30 SWD
 SECTION 30, T14S, R11E, S.L.B.&M.
 731' FNL 2332' FEL



SCALE: 1" = 50'
 DATE: 01-07-08
 Drawn By: M.D.

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

CONSTRUCT DIVERSION DITCH

Approx. Top of Cut Slope

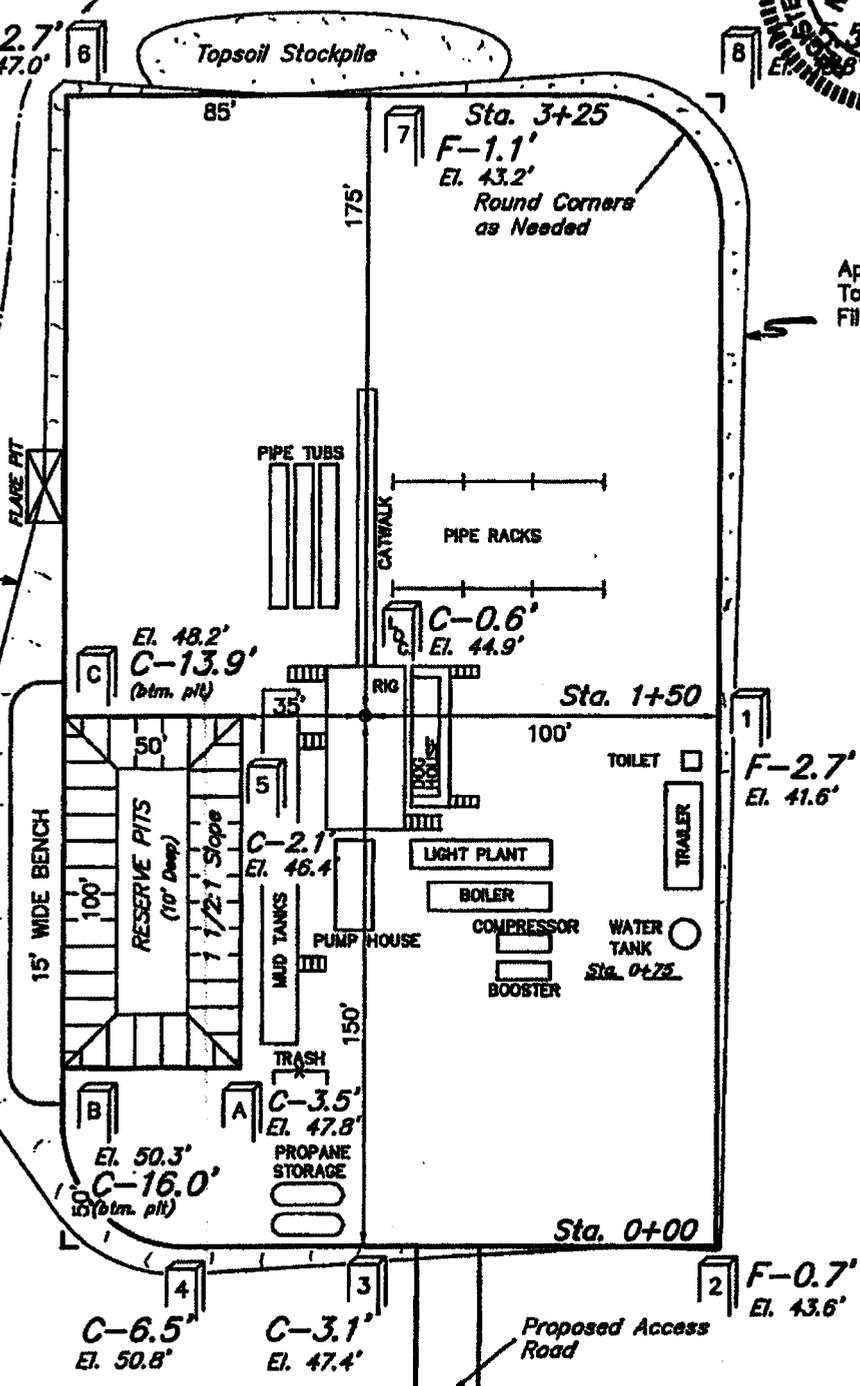
Approx. Top of Fill Slope

Total Pit Capacity
 W/2' of Freeboard
 = 3,610 Bbls. ±
 Total Pit Volume
 = 1,130 Cu. Yds.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5644.9'
 FINISHED GRADE ELEV. AT LOC. STAKE = 5644.3'

UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East • Vernal, Utah 84078 • (435) 788-1017



Kerr-McGee Oil & Gas Onshore LP

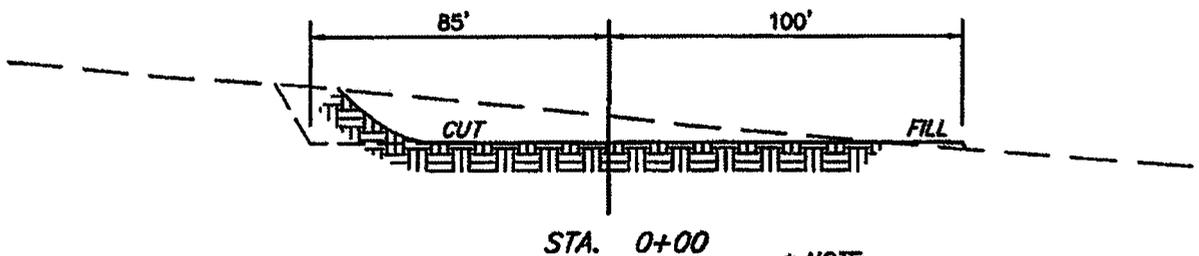
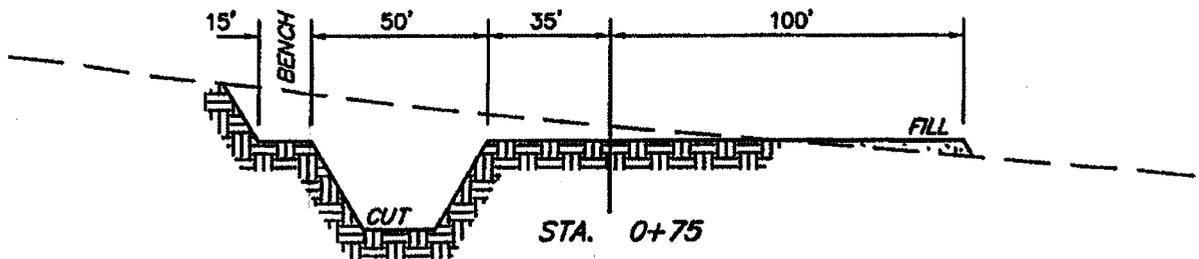
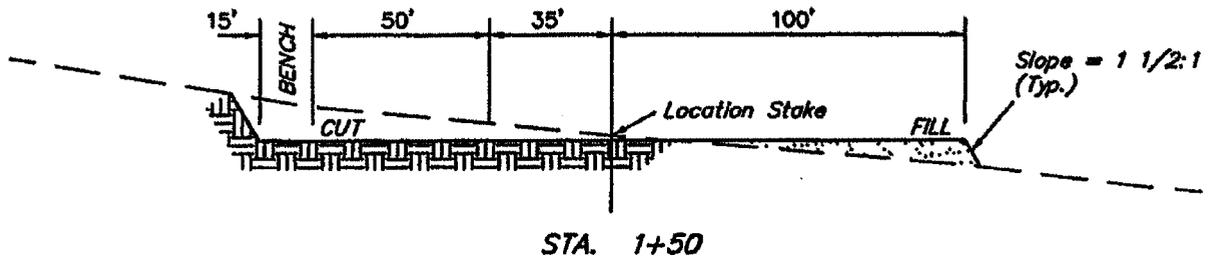
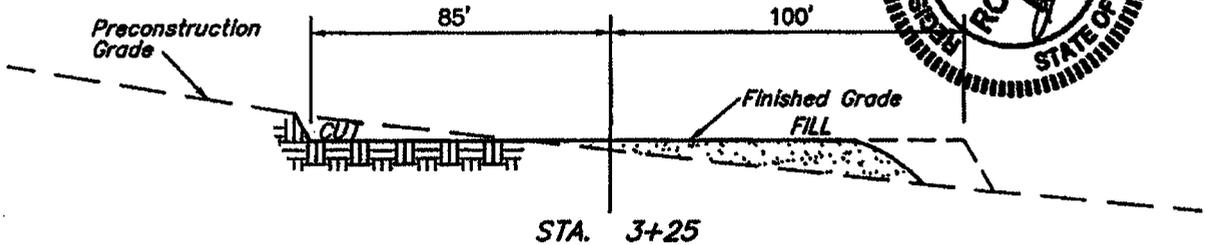
FIGURE #2

TYPICAL CROSS SECTIONS FOR

WELLINGTON FEDERAL #31-30 SWD
SECTION 30, T14S, R11E, S.L.B.&M.
731' FNL 2332' FEL

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

DATE: 01-07-08
Drawn By: M.D.



* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,240 Cu. Yds.
Remaining Location	= 3,810 Cu. Yds.
TOTAL CUT	= 5,050 CU.YDS.
FILL	= 2,460 CU.YDS.

EXCESS MATERIAL	= 2,590 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,810 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 780 Cu. Yds.

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

ENTITY ACTION FORM

Operator: Kerr-McGee Oil & Gas Onshore LP Operator Account Number: N 2995
 Address: 1099 18th St. Ste 1800
city Denver
state CO zip 80202 Phone Number: (720) 929-6832

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4300731375	Wellington Federal 31-30 SWD		NWNE	30	14S	11 E	Carbon
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17129	10/14/08 12:00		10/27/08		
Comments: <u>WINGT</u>							

Well 2

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

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)

Cindy B. Vue

Name (Please Print)

C. B. Vue
Signature

Regulatory Analyst

Title

10-13-08
Date

RECEIVED

OCT 20 2008

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU80565
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: N/A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Saltwater Disposal</u>		7. UNIT or CA AGREEMENT NAME: N/A
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore LP		8. WELL NAME and NUMBER: Wellington Federal 31-30 SWD
3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		9. API NUMBER: 4300731375
4. LOCATION OF WELL FOOTAGES AT SURFACE: 731' FNL, 2332' FEL LAT: 39.584151 LONG: 110.729400 COUNTY: CARBON		10. FIELD AND POOL, OR WILDCAT: Navajo-Wingate
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 30 14S 11E STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>11/1/2008</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>RIG UPDATE</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Due to Rig Availability, Kerr-McGee would like to update that Rig H&P 298 will be used to drill this well. The location pad has been built to specification in attached documents to sundry submitted Sept. 4, 2008. The rig is anticipated to be on location the weekend of November 1st and will continue drilling thereafter. Thank you.

COPY SENT TO OPERATOR

Date: 11/25/2008

Initials: KS

NAME (PLEASE PRINT) <u>Cindy B. Vue</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE <u><i>C. B. Vue</i></u>	DATE <u>10/29/2008</u>

(This space for State use only)

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 11/20/08
By: *D. [Signature]*

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

Federal Approval Of This
Action Is Necessary

RECEIVED
OCT 30 2008
DIV. OF OIL, GAS & MINING

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

FORM 9

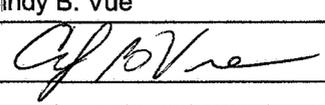
SUNDRY NOTICES AND REPORTS ON WELLS			5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080565
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.			6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>CBM</u>			7. UNIT or CA AGREEMENT NAME: N/A
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore LP			8. WELL NAME and NUMBER: Wellington Federal 31-30 SWD
3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY Denver STATE CO ZIP 80202		PHONE NUMBER: (720) 929-6832	9. API NUMBER: 4300731375
4. LOCATION OF WELL FOOTAGES AT SURFACE: 731' FNL 2332' FEL LAT: 39.584151 LONG: 110.729400 COUNTY: Carbon			10. FIELD AND POOL, OR WILDCAT: Navajo-Wingate
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 30 14S 11E			STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 11/7/2008	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Rig Update</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Conductor Spud 10/14/08 12:00 by Rig SWS 2
Drilling resumed 11/7/08 12:00.
Rig H&P 298 has successfully moved onto location and is currently drilling ahead.

NAME (PLEASE PRINT) <u>Cindy B. Vue</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE 	DATE <u>11/10/2008</u>

(This space for State use only)

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NOV 12 2008

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
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.
UTU080565

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

Oil Well Gas Well Other Salt Water Disposal

2. Name of Operator
Kerr-McGee Oil & Gas Onshore LP

3a. Address
1099 18th Street, Suite 1800
Denver, CO 80602

3b. Phone No. (include area code)
720-929-6832

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

8. Well Name and No.
Wellington Federal 31-30 SWD

9. API Well No.
4300731375

10. Field and Pool or Exploratory Area
Ferron

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NWNE SEC 30 T14S-11E
731' FNL 2332' FEL LAT: 39.584141 LONG: 110.729400

11. Country or Parish, State
CARBON, UT

12. CHECK THE 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 _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Rig Released</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

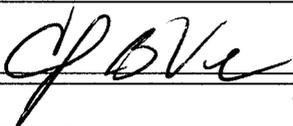
This well was drilled to TD 5218'
Well was logged, evaluated and casing has been set.
Drill Rig H&P 298 has been released 11/16/2008 18:00.

Currently preparing well for Completion. Drilling Summary will be attached with Completion Form, thank you.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Cindy B. Vue

Title Regulatory Analyst

Signature



Date 11/17/2008

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.

(Instructions on page 2)

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NOV 18 2008

DIV. OF OIL, GAS & MINING

INJECTION WELL - PRESSURE TEST

Well Name: Wellington Fed SWD 31-30 API Number: 4300731375
 Qtr/Qtr: NWNE Section: 30 Township: 14S Range: 11E
 Company Name: Kerr McGee

Lease: State _____ Fee _____ Federal X Indian _____
 Inspector: Mark Jones Date: 12/2/08

Initial Conditions:

Tubing - Rate: 0 Pressure: 0 psi

Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>1080</u>	<u>0</u>
5	<u>1070</u>	<u>0</u>
10	<u>1070</u>	<u>0</u>
15	<u>1060</u>	<u>0</u>
20	<u>1060</u>	<u>0</u>
25	<u>1060</u>	<u>0</u>
30	<u>1060</u>	<u>0</u>

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 0 psi

Casing/Tubing Annulus Pressure: 0 psi

COMMENTS: Packer @ 4351 (top) Perfs @ 4390' - 4886'

[Signature]
Operator Representative

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080565
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: n/a
		7. UNIT or CA AGREEMENT NAME: n/a
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Saltwater Disposal</u>		8. WELL NAME and NUMBER: Wellington Federal 31-30 SWD
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore LP		9. API NUMBER: 4300731375
3. ADDRESS OF OPERATOR: PO Box 173779 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80217-3779</u>		10. FIELD AND POOL, OR WILDCAT: Navajo-Wingate
PHONE NUMBER: (720) 929-6832		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 731' FNL, 2332' FEL LAT: 39.584151 LONG: 110.729400		COUNTY: Carbon
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 30 14S 11E		STATE: UTAH

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

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

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

Kerr-McGee respectfully requests a maximum injection rate of 1400 psi.
Attached are previously approved sundries on relative sites that reference the request for a revised injection limit.
Thank you.

NAME (PLEASE PRINT) <u>Cindy B. Vue</u>	TITLE <u>Regulatory Analyst I</u>
SIGNATURE	DATE <u>4/21/2009</u>

(This space for State use only)

RECEIVED

APR 22 2009

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080565
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1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Saltwater Disposal</u>		7. UNIT or CA AGREEMENT NAME: n/a
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore LP		8. WELL NAME and NUMBER: Wellington Federal 31-30 SWD
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4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>731' FNL, 2332' FEL</u> LAT: <u>39.584151</u> LONG: <u>110.729400</u> COUNTY: <u>Carbon</u> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>NWNE 30 14S 11E</u> STATE: <u>UTAH</u>		10. FIELD AND POOL, OR WILDCAT: Navajo-Wingate

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
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	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
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	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Increase Maximum Pressure</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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NAME (PLEASE PRINT) <u>Cindy B. Vue</u>	TITLE <u>Regulatory Analyst I</u>
SIGNATURE	DATE <u>4/21/2009</u>

(This space for State use only)

RECEIVED
APR 22 2009

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Disposal</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-80561
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 1099 18th Street #1200 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 937 FSL 658 FEL		8. WELL NAME and NUMBER: Wellington Federal 44-6 SWD
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 8 14S 11E		9. API NUMBER: 4300730912
		10. FIELD AND POOL, OR WILDCAT: Helper
		COUNTY: Carbon
		STATE: UTAH

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

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

Kerr-McGee Oil & Gas Onshore, LP requests an increase in UIC-309 Permit for higher injection rates in the Helper Field, with the following notations:

Wellington Federal 44-6 SWD
March 19, 2007 Step Rate Test Analysis was submitted to UIC office 7-16-07 for injection rate increase.
Parting pressure 3124 psig @ 8.68 bpm injection rate with 1575 psig surface pressure.
Kerr-McGee requests the allowable injection limit to be revised as referenced below

Injection Rate: 8.09 bpm (90% of the 3124 psig parting pressure)
Maximum Surface Injection Pressure: 1418 psi
Maximum Injection Rate: 11,851 bwpd

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 09-11-07
By: [Signature]

NAME (PLEASE PRINT) Kevin McIntyre TITLE Permitting Specialist
SIGNATURE [Signature] DATE 8/30/2007

(This space for State use only)

(5/2000)

(See Instructions on Reverse Side)

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APR 22 2009

DIV OF OIL, GAS & MINING

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SEP 05 2007

DIV. OF OIL, GAS & MINING

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

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.

1. TYPE OF WELL		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-80660	
OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Disposal</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP		7. UNIT or CA AGREEMENT NAME: N/A	
3. ADDRESS OF OPERATOR: 1099 18th Street #1200 CITY Denver STATE CO ZIP 80202		8. WELL NAME and NUMBER: Wellington Federal 22-4 SWD	
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1500 FWL 2350 FNL QTR/CTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 4 14S 11E		9. API NUMBER: 4300730967	
		10. FIELD AND POOL, OR WILDCAT: Helper	
		COUNTY: Carbon	
		STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
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Wellington Federal 22-4 SWD
March 19, 2007 Step Rate Test Analysis submitted to the UIC office 7-16-2007 for injection rate increase.
Parting pressure 3124 psig @8.68 bpm injection rate with 1575 psig surface pressure
Kerr-McGee requests the allowable injection limit to be revised as referenced below:

Injection rate: 11.5 bpm (90% of the 1929 surface injection pressure at the field's propagation pressure of 3050 psi
Maximum Surface Injection Pressure: 1736 psi
Maximum Injection Rate: 16,560 bwpd

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 08-11-07
By: [Signature]

NAME (PLEASE PRINT) Kevin McIntyre
SIGNATURE [Signature]

TITLE Permitting Specialist
DATE 8/30/2007

(This space for State use only)

RECEIVED
SEP 05 2007

RECEIVED
APR 22 2009

DIV OF OIL, GAS & MINING

DIV. OF OIL, GAS & MINING

UIC INJECTION PERMIT ANALYSIS FORM
WELL NAME: Wellington Federal 31-30 SWD API # 4300731375

R649-5-2. Requirements For Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells.	Completed Items, Needed Items, & Comments
1. Injection wells shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.	1. OK
2. The application for an injection well shall include a properly completed UIC Form 1 and the following:	2. OK
2.1. A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.	2.1 OK
2.2. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.	2.2 APD is still being processed in DOGM.
2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.	2.3 APD is still being processed in DOGM.
2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.	2.4 APD is still being processed in DOGM.
2.5. A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.	2.5 OK, but this is the prognosticated casing/cementing program rather than the final completion configuration.
2.6. A statement as to the type of fluid to be used for injection. its source and estimated amounts to be injected daily.	2.6 OK but no estimated amount is provided only a maximum from the UIC Form I.
2.7. Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.	2.7 Water analyses are inadequate. No Ferron produced water, no injection zone connate water from subject well and no compatibility analysis of the two.
2.8. The proposed average and maximum injection pressures.	2.8 OK
2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.	2.9 APD is still being processed in DOGM.
2.10. Appropriate geological data on the injection interval and confining beds, and nearby Underground Sources of Drinking Water, including the geologic name, lithologic description, thickness, depth, water quality, and lateral extent; also information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.	2.10 The tendered geological information is preliminary, incomplete and insufficient. The operator should update the x-section(s) for the completion information, as it is available and construct the x-sections as depicted on the structure map.
2.11. A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.	2.11 APD is still being processed in DOGM.
2.12. An affidavit certifying that a copy of the application has been provided to all operators, owners and surface owners within a one-half mile radius of the proposed injection well.	2.12 Fatal flaw. No affidavit included in SWD information submission. Brad said go ahead anyway.
2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.	2.13 OK

OTHER COMMENTS AND OBSERVATIONS: Permit will be noticed despite fatal flaw (2.12). It remains to be cured. Considerable data is not available yet. Some submissions are inadequate.

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

---ooOoo---

IN THE MATTER OF THE APPLICATION OF
KERR-MCGEE OIL & GAS ONSHORE, L.P. :
FOR ADMINISTRATIVE APPROVAL OF : NOTICE OF AGENCY ACTION
THE WELLINGTON FEDERAL 31-30 WELL :
LOCATED IN SECTION 30, TOWNSHIP14S, : CAUSE NO. UIC 347
RANGE 11E, WELLINGTON FEDERAL 41-25 :
WELL LOCATED IN SECTION 25,
TOWNSHIP 14S, RANGE 10E, CARBON :
COUNTY, UTAH, AS CLASS II INJECTION :
WELLS

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

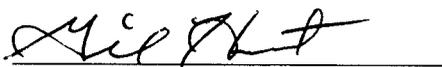
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the applications of the Kerr-McGee Oil & Gas Onshore, L.P. for administrative approval of the Wellington Federal 31-30 well, located in NW/4 NE/4, Section 30, Township 14S, Range 11E, the Wellington Federal 41-25 well, located in NE/4 NE/4, Section 25, Township 14S, Range 10E, Salt Lake Meridian, Carbon County, Utah, for conversion to Class II injection wells. The adjudicative proceedings will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

Selective zones in the Glen Canyon Group will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by Kerr-McGee Oil & Gas Onshore, L.P.

Any person desiring to object to the proposed applications or otherwise intervene in the proceedings, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Gil Hunt, Associate Director, at P.O. Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 2nd day of May, 2008

STATE OF UTAH
DIVISION OF OIL, GAS & MINING



Gil Hunt
Associate Director

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

**Wellington Federal 31-30, Wellington Federal 41-25
Cause No. UIC 347**

Publication Notices were sent to the following:

Kerr-McGee Oil & Gas Onshore, L.P.
1099 18th St
Denver, CO 80202

Anadarko Petroleum
PO Box 894
Price, UT 84501

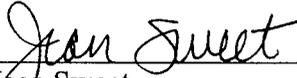
Via E-mail and Fax (435) 637-2716
Sun Advocate
845 E Main
Price, UT 84501

Via E-mail and Fax (801) 237-2776
The Salt Lake Tribune
PO Box 45838
Salt Lake City, UT 84145

Vernal Field Office
Bureau of Land Management
170 S 500 E
Vernal, UT 84078

Carbon County Planning
120 E Main St
Price, UT 84501

Dan Jackson
US EPA Region VIII
MS 8-P-W-GW
1595 Wynkoop St
Denver, CO 80202-1129



Jean Sweet
Executive Secretary
May 2, 2008

AFFIDAVIT OF PUBLICATION

STATE OF UTAH)

ss.

County of Carbon,)

I, Richard Shaw, on oath, say that I am the Publisher of the Sun Advocate, a twice-weekly newspaper of general circulation, published at Price, State a true copy of which is hereto attached, was published in the full issue of such newspaper for 1 (One) consecutive issues, and the first publication was on the 6th day of May, 2008, and that the last publication of such notice was in the issue of such newspaper dated the 6th day of May, 2008.

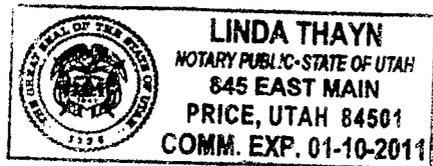

Richard Shaw - Publisher

Subscribed and sworn to before me this 6th day of May, 2008.



Notary Public My commission expires January 10, 2007 Residing at Price, Utah

Publication fee, \$ 116.48



**NOTICE OF AGENCY ACTION
CAUSE NO. UIC 347**

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

IN THE MATTER OF THE APPLICATION OF
KERR-MCGEE OIL & GAS ONSHORE, L.P.
FOR ADMINISTRATIVE APPROVAL OF
THE WELLINGTON FEDERAL 31-30 WELL
LOCATED IN SECTION 30, TOWNSHIP 14S,
RANGE 11E, WELLINGTON FEDERAL 41-25
WELL LOCATED IN SECTION 25,
TOWNSHIP 14S, RANGE 10E, CARBON
COUNTY, UTAH, AS CLASS II INJECTION
WELLS

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED
MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the applications of the Kerr-McGee Oil & Gas Onshore, L.P. for administrative approval of the Wellington Federal 31-30 well, located in NW/4 NE/4, Section 30, Township 14S, Range 11E, the Wellington Federal 41-25 well, located in NE/4 NE/4, Section 25, Township 14S, Range 10E, Salt Lake Meridian, Carbon County, Utah, for conversion to Class II injection wells. The adjudicative proceedings will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

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Dated this 2nd day of May, 2008.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
-s- Gil Hunt, Associate Director

Published in the Sun Advocate May 6, 2008

COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING, 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	05/12/2008

ACCOUNT NAME			
DIV OF OIL-GAS & MINING,			
TELEPHONE		ADORDER# / INVOICE NUMBER	
8015385340		0000286913 /	
SCHEDULE			
Start 05/08/2008		End 05/08/2008	
CUST. REF. NO.			
CAPTION			
NOTICE OF AGENCY ACTION BEFORE THE DIVIS			
SIZE			
58	Lines	2.00	COLUMN
TIMES		RATE	
4			
MISC. CHARGES		AD CHARGES	
TOTAL COST			
199.88			

NOTICE OF AGENCY ACTION BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH CAUSE NO. UIC 347

IN THE MATTER OF THE APPLICATION OF KERR-MCGEE OIL & GAS ONSHORE, L.P. FOR ADMINISTRATIVE PROVAL OF THE WELLINGTON FEDERAL 31-30 W LOCATED IN SECTION 30, TOWNSHIP 14S, RANGE 11E, WELLINGTON FEDERAL 41-25 WELL LOCATED SECTION 25, TOWNSHIP 14S, RANGE 10E, CARBON COUNTY, UTAH, AS CLASS II INJECTION WELLS

THE STATE OF UTAH TO ALL PERSONS INTERESTED THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of the Kerr-McGee Oil & Gas Onshore, L.P. for administrative approval of the Wellington Federal 31-30 well, located in NW/4, NE/4, Section 30, Township 14S, Range 11E, the Wellington Federal 41-25 well located in NE/4, NE/4, Section 25, Township 14 Range 10E, Salt Lake Meridian, Carbon County, Utah for conversion to Class II injection wells. The adjudicative proceedings will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

Selective zones in the Glen Canyon Group will be used for water injection. The maximum requested injection pressure and rate will be determined on an individual well based on fracture gradient information submitted by Kerr-McGee Oil & Gas Onshore, L.P.

Any person desiring to object to the proposed applications or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Gil Hunt, Associate Director, at P.O. Box 145801, Salt Lake City, Utah 84114-5801, phone number 801-538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 2nd day of May, 2008

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/ Gil Hunt
Associate Director UPAK

COPY

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF NOTICE OF AGENCY ACTION BEFORE THE DIVIS FOR DIV OF OIL-GAS & MINING. WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON Start 05/08/2008 End 05/08/2008

SIGNATURE *Sunny Craft*
DATE 05/12/2008



THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT

Guybert Gordon

From: Chris Kierst
To: mbuys@buysandassociates.com
Date: 06/17/2008 3:02 PM
Subject: Kerr-McGee Wellington Fed 41-25 and 31-30 SWD apps
Attachments: Wellington Federal 31-30 SWD Permit Analysis.doc; Wellington Federal 41-25 SWD Permit Analysis.doc

Marty,

FYI, attached please find the annotated UIC Injection Permit Analysis Forms for both wells. I'm sending these so that you are appraised of the deficiencies in these submissions and can take steps to cure them as the information is generated during drilling and testing and for perfecting the application packages anticipatory to the issuance of their respective permits. In particular, please note that the affidavit has not been tendered for either well. Please contact me if you have any questions @ (801) 538-5337

From: "Marty Buys" <mbuys@buysandassociates.com>
To: "Chris Kierst" <CHRISKIERST@utah.gov>, "Lindsey Hockert" <lhockert@b...>
Date: 07/31/2008 11:31 AM
Subject: RE: Kerr-McGee Wellington Fed 41-25 and 31-30 SWD apps

Chris, thank you for the help. We'll get the affidavit out next week. Marty Buys

-----Original Message-----

From: Chris Kierst [mailto:CHRISKIERST@utah.gov]
Sent: Thursday, July 31, 2008 10:02 AM
To: lhockert@buysandassociates.com; mbuys@buysandassociates.com
Subject: Kerr-McGee Wellington Fed 41-25 and 31-30 SWD apps

Marty,

FYI, attached please find the annotated UIC Injection Permit Analysis Forms for both wells. I'm sending these so that you are appraised of the deficiencies in these submissions and can take steps to cure them as the information is generated during drilling and testing and for perfecting the application packages anticipatory to the issuance of their respective permits. In particular, please note that the affidavit has not been tendered for either well. Please contact me if you have any questions @ (801) 538-5337

From: "Lindsey Hockert" <lhockert@buysandassociates.com>
To: <chriskierst@utah.gov>
Date: 07/31/2008 9:23 AM
Subject: Kerr-McGee UIC Permits

Chris,

We submitted a couple of UIC permits for Kerr-McGee in the Cardinal Draw area back in February and I would like to find out if they were ever published.

I am interested in the Wellington Federal 31-30 and the Wellington Federal 41-25.

Thank you,

Lindsey S. Hockert

Buys & Associates, Inc.

300 E. Mineral Ave., Suite 10

Littleton, CO 80122-2655

T: (303) 781-8211

F: (303) 781-1167

<http://buysandassociates.com>

I phoned Lindsey at about 9:35 AM on 7/31/08 (because she also left a phone message that I saw first and responded to) and said we noticed the wells on May 2, 2008 and the notes from the Noticing process indicated that NAC would run the ad on May 8, 2008. The other paper was the Sun Advocate and I have no info yet on its publication. I also referenced me 6/17/08 email to Buys + Assoc. to include 2 permit analysis docs w/ deficiencies including a (let's) flaw in each (affidavit) CK 7/31/08

August 12, 2008

RECEIVED
AUG 19 2008
DIV. OF OIL, GAS & MINING

Operators, Owners and Surface and Mineral Owners

RE: Notification of Conversion to Water Injection
Wellington Federal 41-25 SWD, NWNE Sec 30, T14S, R11E, Carbon County
Wellington Federal 31-30 SWD, NENE Sec 25, T14S, R10E, Carbon County

To Whom It May Concern,

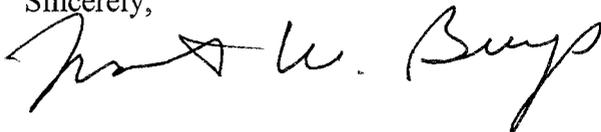
On March 3, 2008, Kerr-McGee submitted to the Utah Division of Oil, Gas and Mining (DOGM) an application requesting approval to convert the Wellington Federal 41-25 SWD well and the Wellington Federal 31-30 SWD well to water injection wells. These wells will inject into the Navajo and Wingate formations in the Cardinal Draw Field.

The attached list is contains the names of all the owners, operators, and royalty and surface interest owners located within ½ mile radius of the subject well.

Anyone who would be directly and adversely affected by the authorization of the underground disposal into the Navajo and Wingate formations may file a written request for a public hearing before the Division of Oil, Gas and Mining. Logs and additional information on the subject well are on file with the DOGM, 1594 West North Temple, Suite 1210, Slat Lake City 84114-5801.

Please contact Martin Buys at 303-781-8211 if you have any questions.

Sincerely,



Martin W. Buys
Agent for Petroglyph Energy, Inc.

Enclosure

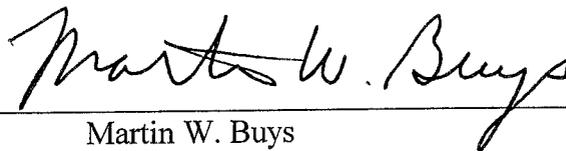
AFFIDAVIT OF MAILING

Kerr-McGee has identified all of the operators, owners, and surface owners within a one-half mile radius of the proposed injection well.

I, Martin W. Buys, President, Buys & Associates, Inc., being first duly sworn, depose and state as follows; On August 12, 2008, I caused to be mailed by certified mail, postage prepaid, return receipt requested, an affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well

The attached list contains the names of all parties who were notified.

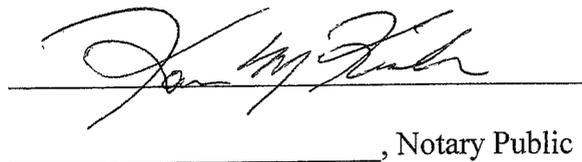
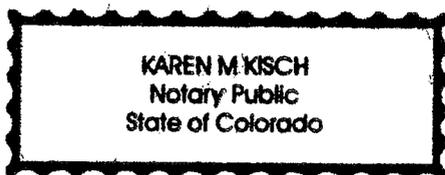
Dated this 12th day of August, 2008



Martin W. Buys
President
Buys & Associates, Inc.

The forgoing affidavit was subscribed and sworn to before me by Martin W. Buys.

This 12th day of August, 2008



_____, Notary Public

Surface Owners

Name	Address	City	State	Zip
BLM	PO Box 45155	Salt Lake City	UT	84145
David Schimmin	PO Box 785	Price	UT	84501
Kerr-McGee O&G	1999 Broadway, Suite 3700	Denver	CO	80202
Conoco Phillips Company	PO Box 2197	Houston	TX	77252-2197
Robert L. Bayless, Producer, LLC	621 17th Street, Suite 2300	Denver	CO	80293
Roberta Hardy	1588 N Coal Creek Road	Price	UT	84501
Robert & Linda Robertson	1720 E North Coal Creek Road	Price	UT	84501
Dana & Rusty Truman	1750 E North Coal Creek Road	Price	UT	84501
Ronald & Kristen Henrie	1744 North Coal Creek Road	Price	UT	84501
Karla Rhodes	PO Box 145	Price	UT	84542
Verdis & Pauline Baker	1400 S 3250 E	Price	UT	84501
Donna Schimmin	207 W 1400 N	Price	UT	84003
Sonja V McCormick	1481 South Preston Street	Salt Lake City	UT	84108
The First National Company of Marshall	PO Box 61540	New Orleans	LA	70161
Kidd Family Partnership Ltd.	3838 Oak Lawn Avenue, Suite 725	Dallas	TX	74219
Chevron USA	PO Box 36366	Houston	TX	77236

UIC INJECTION PERMIT ANALYSIS FORM
WELL NAME: Wellington Federal 31-30 SWD API # 4300731375

R649-5-2. Requirements For Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells.	Completed Items, Needed Items, & Comments
1. Injection wells shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.	1. OK
2. The application for an injection well shall include a properly completed UIC Form 1 and the following:	2. OK
2.1. A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.	2.1 OK
2.2. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.	2.2 APD is approved; well to be drilled.
2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.	2.3 APD is approved; well to be drilled.
2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.	2.4 APD is approved; well to be drilled.
2.5. A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.	2.5 OK, but this is the prognosticated casing/cementing program rather than the final completion configuration.
2.6. A statement as to the type of fluid to be used for injection. its source and estimated amounts to be injected daily.	2.6 OK, but no estimated amount is provided only a maximum from the UIC Form I.
2.7. Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.	2.7 Water analyses are inadequate. No Ferron produced water, no injection zone connate water from subject well and no compatibility analysis of the two.
2.8. The proposed average and maximum injection pressures.	2.8 OK
2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.	2.9 APD is approved; well to be drilled.
2.10. Appropriate geological data on the injection interval and confining beds, and nearby Underground Sources of Drinking Water, including the geologic name, lithologic description, thickness, depth, water quality, and lateral extent; also information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.	2.10 The tendered geological information is preliminary, incomplete and insufficient. The operator should update the x-section(s) for the completion information, as it is available and construct the x-sections as depicted on the structure map.
2.11. A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.	2.11 APD is approved; well to be drilled.
2.12. An affidavit certifying that a copy of the application has been provided to all operators, owners and surface owners within a one-half mile radius of the proposed injection well.	2.12 OK
2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.	2.13 OK

OTHER COMMENTS AND OBSERVATIONS: **Considerable data is not available yet. Some submissions are inadequate.**

Reviewed by: Christopher J. Kierst Date: 9/23/2008

From: Chris Kierst
To: Tyson Schwartz
Subject: Re: Wellington Federal 31-30 SWD Six Month Injection Request Sundry

Tyson,
Brad says we don't need to exchange the Sundry because the well hasn't been permitted yet. He says to go ahead, having informed us, and this level of permission will suffice. Please feel free to proceed with this proposal.

>>> "Schwartz, Tyson" <Tyson.Schwartz@anadarko.com> 11/24/2008 10:38 AM >>>
Chris-

Please find attached the sundry request for a six month injection period for the Wellington Federal 31-30 SWD along with a plot of the step-rate test that was conducted on November 22, 2008. I have also attached a .pdf of the bond log of the subject well. Hard copies of all the documents will be over-nighted to your office.

Thank you for your consideration of this request,

Tyson Schwartz
Reservoir Engineer
Anadarko Petroleum Corporation
Granite Tower - Denver CO
307.259.4911 (C)
720.929.6249 (O)
720.929.7249 (F)
Please note new office and fax numbers as well
as new email: tyson.schwartz@anadarko.com

<<WF 31-30 Step-rate test plot.pdf>> <<Wellington Fed 31-30 SWD 6mo
Injection Request 11-24-08.pdf>> <<Anadarko Wellington Fed 31-30.pdf>>

From: "Schwartz, Tyson" <Tyson.Schwartz@anadarko.com>
To: "Chris Kierst" <chriskierst@utah.gov>
CC: "Schick Tanz, Ed" <Ed.SchickTanz@anadarko.com>
Date: 11/24/2008 12:16 PM
Subject: RE: Wellington Federal 31-30 SWD Six Month Injection RequestSundry

Chris-

I have contacted our logging vendor and they will be mailing you hard copies of the logs. I will work up a well bore diagram for your records. We plan to move a work over rig on the subject well the week of December 1st. At that time we will perform an MIT test on the well and will notify your office 48 hours in advance of the test. Per your permission below, we plan to start injection around the 15th of December into the subject well. We will conduct a second step-rate test within six months in order to process the UIC permit. I want to make sure we are on the same page. Please let me know if you agree with the above plan.

Thanks,
Tyson

-----Original Message-----

From: Chris Kierst [mailto:chriskierst@utah.gov]
Sent: Monday, November 24, 2008 11:31 AM
To: Schwartz, Tyson
Subject: Re: Wellington Federal 31-30 SWD Six Month Injection RequestSundry

Tyson,
Brad says we don't need to exchange the Sundry because the well hasn't been permitted yet. He says to go ahead, having informed us, and this level of permission will suffice. Please feel free to proceed with this proposal.

>>> "Schwartz, Tyson" <Tyson.Schwartz@anadarko.com> 11/24/2008 10:38 AM
>>> >>>
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Thank you for your consideration of this request,

Tyson Schwartz
Reservoir Engineer
Anadarko Petroleum Corporation
Granite Tower - Denver CO
307.259.4911 (C)
720.929.6249 (O)
720.929.7249 (F)

Please note new office and fax numbers as well as new email:
tyson.schwartz@anadarko.com

From: "Schwartz, Tyson" <Tyson.Schwartz@anadarko.com>
To: "Chris Kierst" <chriskierst@utah.gov>
CC: "Vue, Cindy" <Cindy.Vue@anadarko.com>
Date: 11/24/2008 10:38 AM
Subject: Wellington Federal 31-30 SWD Six Month Injection Request Sundry
Attachments: WF 31-30 Step-rate test plot.pdf; Wellington Fed 31-30 SWD 6mo Injection Request 11-24-08.pdf; Anadarko Wellington Fed 31-30.pdf

Chris-

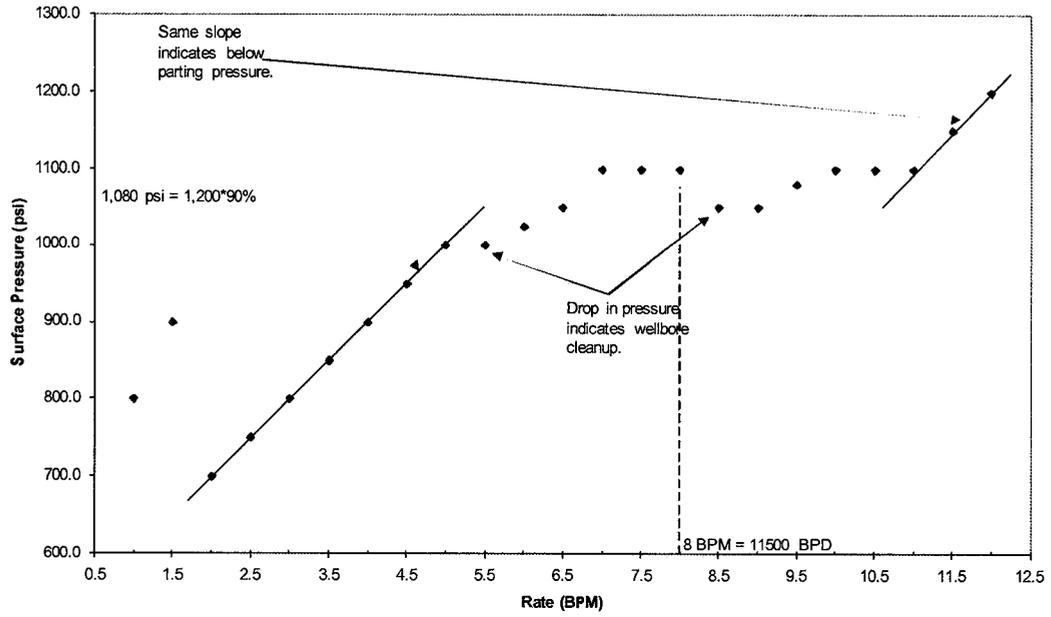
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Thank you for your consideration of this request,

Tyson Schwartz
Reservoir Engineer
Anadarko Petroleum Corporation
Granite Tower - Denver CO
307.259.4911 (C)
720.929.6249 (O)
720.929.7249 (F)
Please note new office and fax numbers as well
as new email: tyson.schwartz@anadarko.com

<<WF 31-30 Step-rate test plot.pdf>> <<Wellington Fed 31-30 SWD 6mo Injection Request 11-24-08.pdf>> <<Anadarko Wellington Fed 31-30.pdf>>

Wellington Federal 31-30 SWD Step-Rate Test



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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080565
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT or CA AGREEMENT NAME: N/A
8. WELL NAME and NUMBER: Wellington Federal 31-30 SWD
9. API NUMBER: 4300731375
10. FIELD AND POOL, OR WILDCAT: Navajo-Wingate
1. TYPE OF WELL: OIL WELL [] GAS WELL [] OTHER: Saltwater Disposal
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore LP
3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY: Denver STATE: CO ZIP: 80202 PHONE NUMBER: (720) 929-6832
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 731' FNL, 2332' FEL Lat: 39.584151 Long: 110.729400 COUNTY: Carbon QTR/QR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 30 14S 11E STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA
TYPE OF SUBMISSION: [x] NOTICE OF INTENT (Submit in Duplicate)
TYPE OF ACTION: [] ACIDIZE, [] ALTER CASING, [] CASING REPAIR, [] CHANGE TO PREVIOUS PLANS, [] CHANGE TUBING, [] CHANGE WELL NAME, [] CHANGE WELL STATUS, [] COMMINGLE PRODUCING FORMATIONS, [] CONVERT WELL TYPE, [] DEEPEN, [] FRACTURE TREAT, [] NEW CONSTRUCTION, [] OPERATOR CHANGE, [] PLUG AND ABANDON, [] PLUG BACK, [] PRODUCTION (START/RESUME), [] RECLAMATION OF WELL SITE, [] RECOMPLETE - DIFFERENT FORMATION, [] REPERFORATE CURRENT FORMATION, [] SIDETRACK TO REPAIR WELL, [] TEMPORARILY ABANDON, [] TUBING REPAIR, [] VENT OR FLARE, [] WATER DISPOSAL, [] WATER SHUT-OFF, [x] OTHER: Six Month Injection Period Request

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
Kerr McGee is requesting a six month injection period in the subject well to charge the reservoir and clean up any near wellbore damage. A step-rate test was conducted on the subject well on November 22, 2008. The data was inconclusive of a parting pressure. Drops in pressure indicated break down of the perforations and near wellbore clean up, not a change in slope indicating a parting pressure. The test was limited to 12 barrels per minute due to equipment on location and a max pressure of 1,200 psi (surface pressure) was recorded. At the end of the six month injection period a second step-rate test will be conducted with sufficient equipment on location to record the parting pressure of the reservoir.
Maximum requested surface injection pressure = 1,200 psi * 90% = 1,080 psi
Thank you for your consideration in this request. Please contact the following for any questions and concerns:
Tyson Schwartz
Reservoir/Production Engineer
Anadarko Petroleum Corporation
720.929.6249 office
720.929.7249 fax
307.259.4911 cell

NAME (PLEASE PRINT) Cindy B Vue TITLE Regulatory Analyst
SIGNATURE [Signature] DATE 11/24/2008

(This space for State use only)

INSTRUCTIONS

This form shall be submitted by the operator to show the intention and/or completion of the following:

- miscellaneous work projects and actions for which other specific report forms do not exist;
- all other work and events as identified in section 11, Type of Action, or as required by the Utah Oil and Gas Conservation General Rules, including:
 - minor deepening of an existing well bore,
 - plugging back a well,
 - recompleting to a different producing formation within an existing well bore (intent only),
 - re-perforating the current producing formation,
 - drilling a sidetrack to repair a well,
 - reporting monthly the status of each drilling well.

This form is not to be used for proposals to

- drill new wells,
- re-enter previously plugged and abandoned wells,
- significantly deepen existing wells below their current bottom-hole depth,
- drill horizontal laterals from an existing well bore,
- drill hydrocarbon exploratory holes such as core samples and stratigraphic tests.

Use Form 3, Application for Permit to Drill (APD) for such proposals.

NOTICE OF INTENT - A notice of intention to do work on a well or to change plans previously approved shall be submitted in duplicate and must be received and approved by the division before the work is commenced. The operator is responsible for receipt of the notice by the division in ample time for proper consideration and action. In cases of emergency, the operator may obtain verbal approval to commence work. Within five days after receiving verbal approval, the operator shall submit a Sundry Notice describing the work and acknowledging the verbal approval.

SUBSEQUENT REPORT - A subsequent report shall be submitted to the division within 30 days of the completion of the outlined work. Specific details of the work performed should be provided, including dates, well depths, placement of plugs, etc.

WELL ABANDONMENT - Proposals to abandon a well and subsequent reports of abandonment should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, and method of parting of any casing, liner, or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

In addition to any Sundry Notice forms submitted, **Form 8, Well Completion or Recompletion Report and Log** must be submitted to the division to report the results of the following operations:

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

Send to:

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

Phone: 801-538-5340

Fax: 801-359-3940



From: "Schwartz, Tyson" <Tyson.Schwartz@anadarko.com>
To: "Chris Kierst" <chriskierst@utah.gov>
Date: 11/21/2008 9:36 AM
Subject: Wellington Federal 31-30 SWD Step-Rate Test

Chris-

We will be performing the step-rate test on the Wellington Federal 31-30 SWD on Saturday November 22, 2008 starting at 7:30 a.m. Please call if you have any questions regarding this test.

Thank you,

Tyson Schwartz
Anadarko Petroleum Corporation
307.259.4911 cell
720.929.6249 office

-----Original Message-----

From: Chris Kierst [mailto:chriskierst@utah.gov]
Sent: Monday, November 17, 2008 10:19 AM
To: Schwartz, Tyson
Subject: RE: EPA Cement Bond Log Guidance

Attached please find a copy of the document. Hope this helps. Please be sure to make sure that you provide thorough coverage over the length of the cased intervals (amplitude extremes for Bond Index anchor points) and that the transit time curve is good with no indications of eccentricity (a faulty tool?) in critical areas where you need to demonstrate good cement in proposed confinement zones. I will spot for fast formation indications if they occur. I will run a Bond Index on the same sheet that comes with this article.

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080565
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT or CA AGREEMENT NAME: N/A
8. WELL NAME and NUMBER: Wellington Federal 31-30 SWD
9. API NUMBER: 4300731375
10. FIELD AND POOL, OR WILDCAT: Navajo-Wingate

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.

1. TYPE OF WELL OIL WELL GAS WELL OTHER Saltwater Disposal

2. NAME OF OPERATOR:
Kerr-McGee Oil & Gas Onshore LP

3. ADDRESS OF OPERATOR:
1099 18th St. Ste 1800 CITY **Denver** STATE **CO** ZIP **80202** PHONE NUMBER: **(720) 929-6832**

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **731' FNL, 2332' FEL** Lat: **39.584151** Long: **110.729400** COUNTY: **Carbon**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NWNE 30 14S 11E** STATE: **UTAH**

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

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

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

Kerr McGee is requesting a six month injection period in the subject well to charge the reservoir and clean up any near wellbore damage. A step-rate test was conducted on the subject well on November 22, 2008. The data was inconclusive of a parting pressure. Drops in pressure indicated break down of the perforations and near wellbore clean up, not a change in slope indicating a parting pressure. The test was limited to 12 barrels per minute due to equipment on location and a max pressure of 1,200 psi (surface pressure) was recorded. At the end of the six month injection period a second step-rate test will be conducted with sufficient equipment on location to record the parting pressure of the reservoir.

Maximum requested surface injection pressure = 1,200 psi * 90% = 1,080 psi

Thank you for your consideration in this request. Please contact the following for any questions and concerns:
Tyson Schwartz
Reservoir/Production Engineer
Anadarko Petroleum Corporation
720.929.6249 office
720.929.7249 fax
307.259.4911 cell

NAME (PLEASE PRINT) Cindy B Vue TITLE Regulatory Analyst

SIGNATURE *Cindy B Vue* DATE 11/24/2008

(This space for State use only)

INSTRUCTIONS

This form shall be submitted by the operator to show the intention and/or completion of the following:

- miscellaneous work projects and actions for which other specific report forms do not exist;
- all other work and events as identified in section 11, Type of Action, or as required by the Utah Oil and Gas Conservation General Rules, including:
 - minor deepening of an existing well bore,
 - plugging back a well,
 - recompleting to a different producing formation within an existing well bore (intent only),
 - reperforating the current producing formation,
 - drilling a sidetrack to repair a well,
 - reporting monthly the status of each drilling well.

This form is not to be used for proposals to

- drill new wells,
- reenter previously plugged and abandoned wells,
- significantly deepen existing wells below their current bottom-hole depth,
- drill horizontal laterals from an existing well bore,
- drill hydrocarbon exploratory holes such as core samples and stratigraphic tests.

Use Form 3, Application for Permit to Drill (APD) for such proposals.

NOTICE OF INTENT - A notice of intention to do work on a well or to change plans previously approved shall be submitted in duplicate and must be received and approved by the division before the work is commenced. The operator is responsible for receipt of the notice by the division in ample time for proper consideration and action. In cases of emergency, the operator may obtain verbal approval to commence work. Within five days after receiving verbal approval, the operator shall submit a Sundry Notice describing the work and acknowledging the verbal approval.

SUBSEQUENT REPORT - A subsequent report shall be submitted to the division within 30 days of the completion of the outlined work. Specific details of the work performed should be provided, including dates, well depths, placement of plugs, etc.

WELL ABANDONMENT - Proposals to abandon a well and subsequent reports of abandonment should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, and method of parting of any casing, liner, or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

In addition to any Sundry Notice forms submitted, **Form 8, Well Completion or Recompletion Report and Log** must be submitted to the division to report the results of the following operations:

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

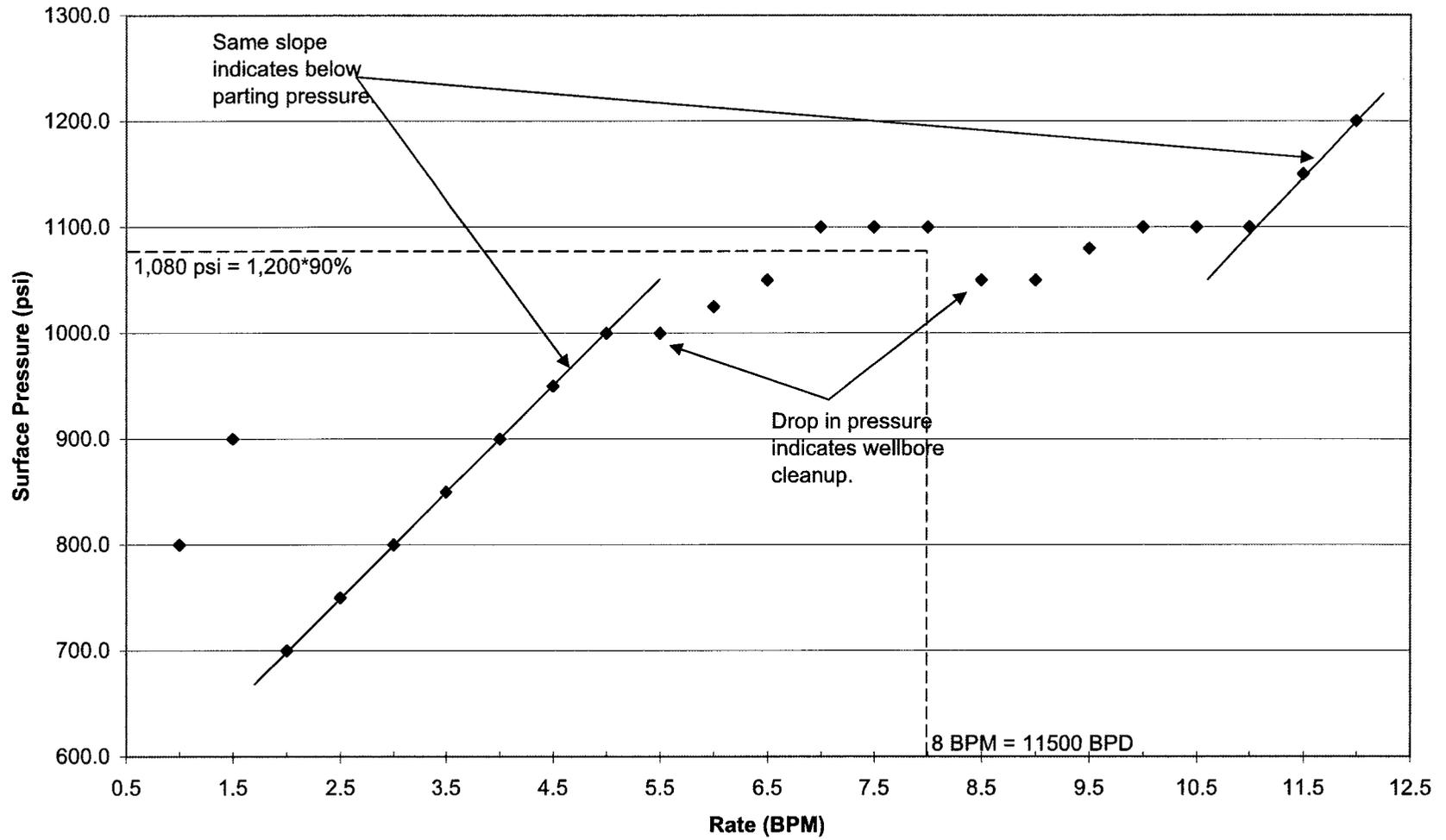
Send to:

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

Phone: 801-538-5340

Fax: 801-359-3940

Wellington Federal 31-30 SWD Step-Rate Test



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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080565
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: N/A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Saltwater Disposal</u>		7. UNIT or CA AGREEMENT NAME: N/A
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore LP		8. WELL NAME and NUMBER: Wellington Federal 31-30 SWD
3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY Denver STATE CO ZIP 80202		9. API NUMBER: 4300731375
4. LOCATION OF WELL FOOTAGES AT SURFACE: 731' FNL, 2332' FEL Lat: 39.584151 Long: 110.729400		10. FIELD AND POOL, OR WILDCAT: Navajo-Wingate
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 30 14S 11E		COUNTY: Carbon
		STATE: UTAH

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

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

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

Kerr McGee is requesting a six month injection period in the subject well to charge the reservoir and clean up any near wellbore damage. A step-rate test was conducted on the subject well on November 22, 2008. The data was inconclusive of a parting pressure. Drops in pressure indicated break down of the perforations and near wellbore clean up, not a change in slope indicating a parting pressure. The test was limited to 12 barrels per minute due to equipment on location and a max pressure of 1,200 psi (surface pressure) was recorded. At the end of the six month injection period a second step-rate test will be conducted with sufficient equipment on location to record the parting pressure of the reservoir.

Maximum requested surface injection pressure = 1,200 psi * 90% = 1,080 psi

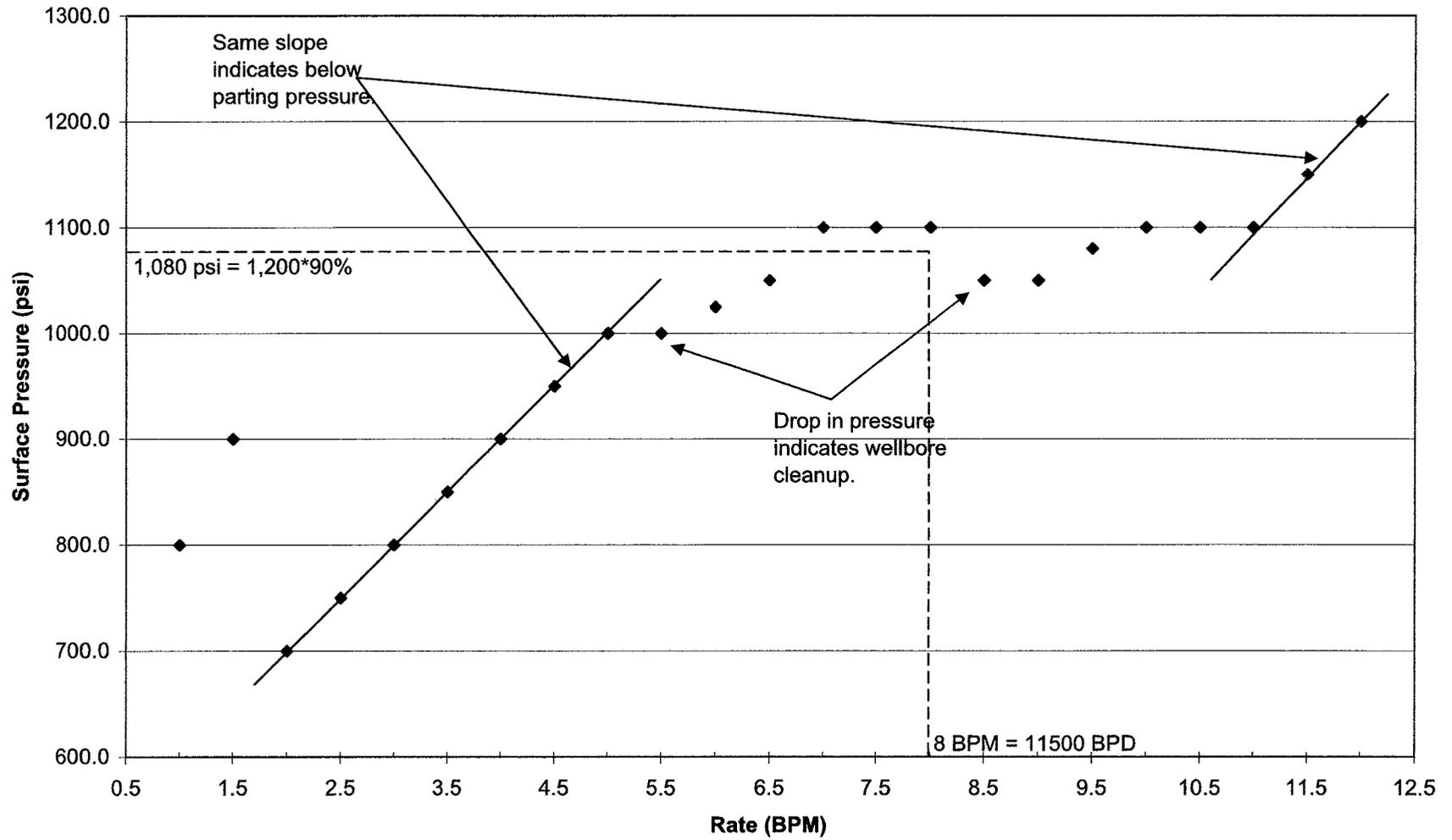
Thank you for your consideration in this request. Please contact the following for any questions and concerns:
 Tyson Schwartz
 Reservoir/Production Engineer
 Anadarko Petroleum Corporation
 720.929.6249 office
 720.929.7249 fax
 307.259.4911 cell

NAME (PLEASE PRINT) <u>Cindy B Vue</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE	DATE <u>11/24/2008</u>

(This space for State use only)

RECEIVED
NOV 25 2008
DIV. OF OIL, GAS & MINING

Wellington Federal 31-30 SWD Step-Rate Test





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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS			5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080565
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: N/A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Saltwater Disposal</u>			7. UNIT or CA AGREEMENT NAME: N/A
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore LP			8. WELL NAME and NUMBER: Wellington Federal 31-30 SWD
3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY Denver STATE CO ZIP 80202		PHONE NUMBER: (720) 929-6832	9. API NUMBER: 4300731375
4. LOCATION OF WELL FOOTAGES AT SURFACE: 731' FNL, 2332' FEL Lat: 39.584151 Long: 110.729400 COUNTY: Carbon			10. FIELD AND POOL, OR WILDCAT: Navajo-Wingate
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 30 14S 11E			STATE: UTAH

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

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

Kerr McGee is requesting a six month injection period in the subject well to charge the reservoir and clean up any near wellbore damage. A step-rate test was conducted on the subject well on November 22, 2008. The data was inconclusive of a parting pressure. Drops in pressure indicated break down of the perforations and near wellbore clean up, not a change in slope indicating a parting pressure. The test was limited to 12 barrels per minute due to equipment on location and a max pressure of 1,200 psi (surface pressure) was recorded. At the end of the six month injection period a second step-rate test will be conducted with sufficient equipment on location to record the parting pressure of the reservoir.

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Thank you for your consideration in this request. Please contact the following for any questions and concerns:

Tyson Schwartz
Reservoir/Production Engineer
Anadarko Petroleum Corporation
720.929.6249 office
720.929.7249 fax
307.259.4911 cell

NAME (PLEASE PRINT) <u>Cindy B Vue</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE	DATE <u>11/24/2008</u>

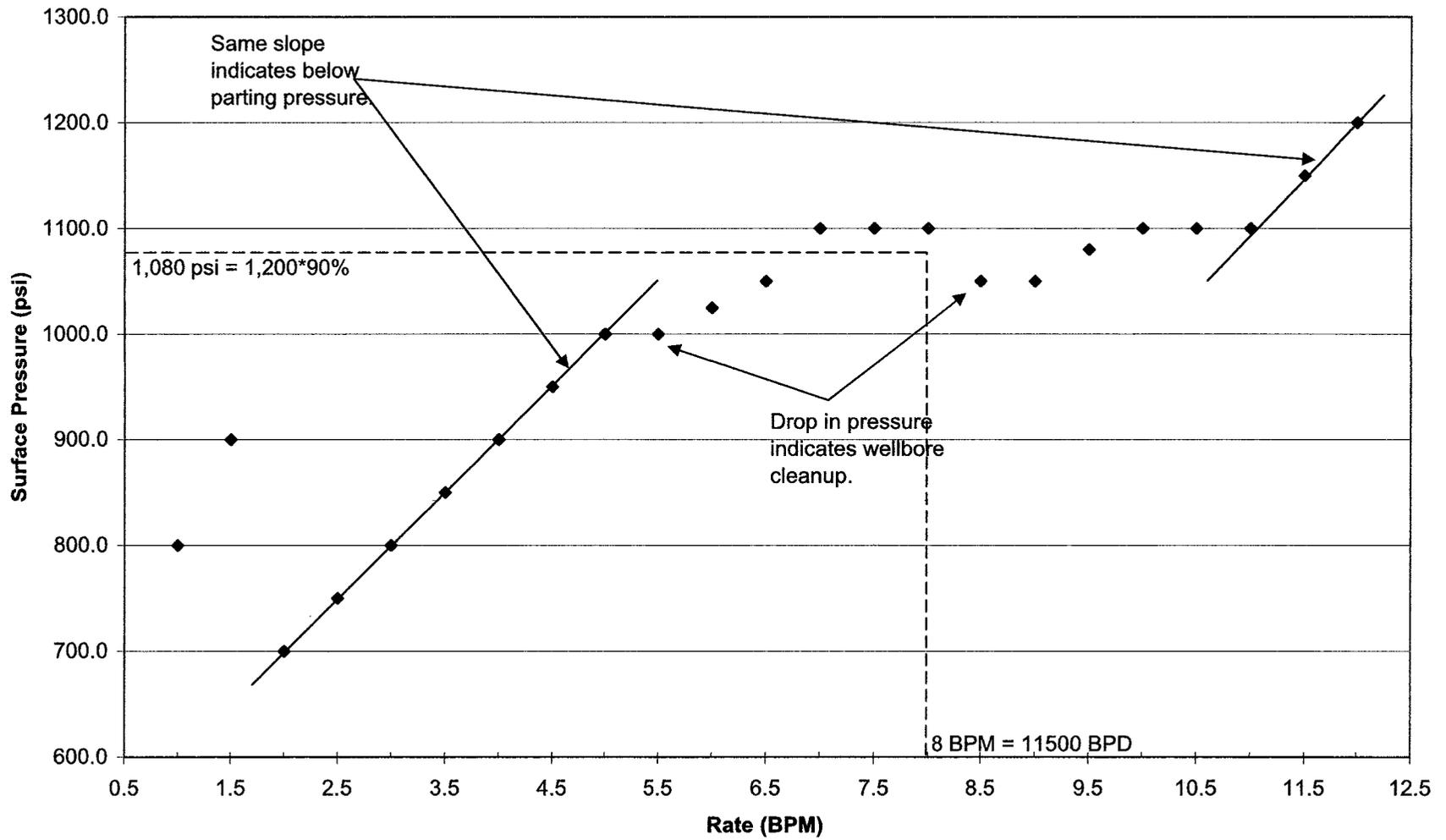
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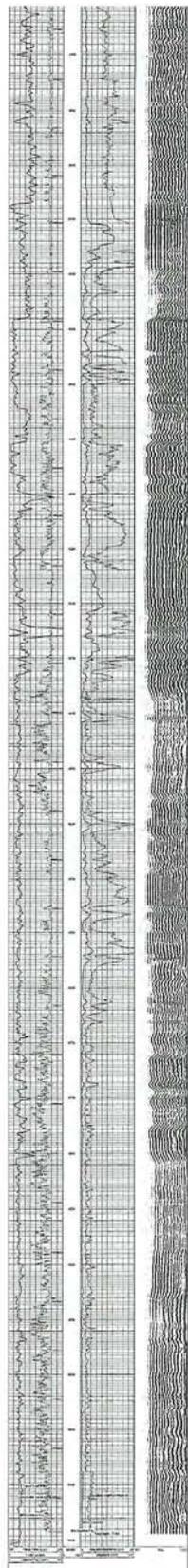
NOV 25 2008

DIV. OF OIL, GAS & MINING

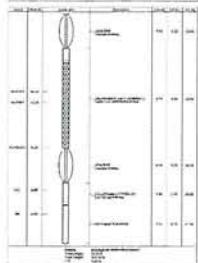
Wellington Federal 31-30 SWD Step-Rate Test







Time	Amplitude	Phase	Frequency
0.0	0.0	0.0	0.0
0.1	0.1	0.1	0.1
0.2	0.2	0.2	0.2
0.3	0.3	0.3	0.3
0.4	0.4	0.4	0.4
0.5	0.5	0.5	0.5
0.6	0.6	0.6	0.6
0.7	0.7	0.7	0.7
0.8	0.8	0.8	0.8
0.9	0.9	0.9	0.9
1.0	1.0	1.0	1.0



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
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.
UTU080565

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well
 Oil Well Gas Well Other Salt Water Disposal

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

2. Name of Operator
Kerr-McGee Oil & Gas Onshore LP

8. Well Name and No.
Wellington Federal 31-30 SWD

3a. Address
1099 18th St. Ste 1800
Denver, CO 80202

3b. Phone No. (include area code)
720-929-6832

9. API Well No.
43-007-31375

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NWNE SEC 30 T 14S-R11E
731' FNL, 2332' FEL LAT: 39.584151 LONG: 110.729400

10. Field and Pool or Exploratory Area
NAVAJO-WINGATE

11. Country or Parish, State
Carbon, UT

12. CHECK THE 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>1ST INJECTION</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 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Wellington Federal 31-30 SWD had its first Water injection of 1415 bwpd at 550 psi on 12/17/2008.

RECEIVED
DEC 23 2008

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Cindy B. Vue

Title Regulatory Analyst

Signature 

Date 12/22/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____
 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.

Title _____ Date _____
 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.

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU080565

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resrv.,
 Other: SWD Well

6. If Indian, Allottee or Tribe Name
N/A

7. Unit or CA Agreement Name and No.
N/A

2. Name of Operator
Kerr-McGee Oil & Gas Onshore LP

8. Lease Name and Well No.
WELLINGTON FEDERAL 31-30 SWD

3. Address 1099 18th St. Ste 1800
Denver, CO 80202 Cindy.Vue@anadarko.com 3a. Phone No. (include area code)
720-929-6832

9. AFI Well No.
43-007-31375

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

10. Field and Pool or Exploratory
Navajo-Wingate

NWNE SEC 30 T14S-R11E
At surface 731' FNL, 2332', FEL LAT: 39.584151 LONG: 110.729400
3

11. Sec., T., R., M., on Block and Survey or Area SEC 30 T14S-R11E

SAME AS SURFACE

At top prod. interval reported below

12. County or Parish
Carbon 13. State
UT

At total depth SAME AS SURFACE

14. Date Spudded 10/14/2008 15. Date T.D. Reached 11/15/2008 16. Date Completed 12/17/2008
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5670.01' RKB

18. Total Depth: MD 5218' TVD 19. Plug Back T.D.: MD 5144' TVD 20. Depth Bridge Plug Set: MD 4351' TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
 SD, DSN, ACTR, CBL, CCL, GR, VDL
 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit report)
 Directional Survey? No Yes (Submit copy)

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13.38"/H-40	48#	0'	255'		340 sx Class G	70	0'	n/a
12-1/4"	9-5/8"/H-40	32.3	0'	2130'		714 sx Class G	153	0'	n/a
8-3/4"	7"/J-55	23#	0'	5203'		540 sx Class G	173	0'	n/a

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
3-1/2"	4361.05'							

25. Producing Intervals

Formation	Top	Bottom	Perforation Interval	Size	No. Holes	Perf. Status
A) Navajo	4390'	4674'	4390'-4430' & 4512'-4574'	.39"	4 SPF	Open
B)			4598'-4642'	.39"	4 SPF	Open
C)			4654'-4674'	.39"	4 SPF	Open
D) Wingate	4806'	4886'	4806'-4886'	.39"	4 SPF	Open

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

Depth Interval	Amount and Type of Material

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
12/17/08	12/17/08	24	→	0	0	1415			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→	0	0	1415		Injecting	

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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→						

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JAN 15 2009

DIV. OF OIL, GAS & MINING

*(See instructions and spaces for additional data on page 2)

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 (Solid, used for fuel, vented, etc.)
n/a

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
				Ferron	723'
				Tunuck Shale	1103'
				Navajo	4372'
				Kayenta	4701'
				Wingate	4741'

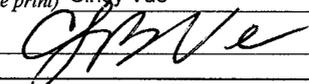
32. Additional remarks (include plugging procedure):

Drilling and Completion Summary attached. Thank you.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other:

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

Name (please print) Cindy Vue Title Regulatory Analyst
 Signature  Date 01/14/2009

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.

ROCKIES
Operation Summary Report

Well: WELLINGTON FEDERAL 31-30 SWD

Project: UTAH

Site: CARBON

Rig Name No: SWS #2/2, H&P 298/298

Event: DRILLING

Start Date: 10/8/2008

End Date: 10/16/2008

Spud Date: 10/14/2008

Active Datum: RKB @5,670.01ft (above Mean Sea Level)

UWI: 0/14/S/11/E/30/0/NWNE/6/PM/N/731.00/E/0/2,332.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
10/14/2008	0:00 - 6:00	6.00	MIRU	12	D	P		RIG IDLE WAIT ON DAYLIGHT
	6:00 - 6:30	0.50	MIRU	17		P		WARM UP RIG AND HOLD SAFETY MEETING
	6:30 - 8:30	2.00	MIRU	01	A	P		MOVE RIG FROM WELLINGTON FED 41-25 SWD TO THE WELLINGTON FED 31-30 SWD
	8:30 - 11:00	2.50	MIRU	12	E	P		WAIT ON BACKHOE TO BUILD PIT FOR DRILLING
	11:00 - 12:00	1.00	PRPSPD	04	A	P		MIX MUD FOR DRILLING
	12:00 - 23:00	11.00	DRLSUR	02	A	P		SPUD SURFACE DRILL F/ 00 TO 140'
	23:00 - 23:30	0.50	DRLSUR	04	C	P		CIRCULATE AND CONDITION HOLE FOR TRIP
	23:30 - 0:00	0.50	DRLSUR	05	A	P		TRIP OUT OF HOLE TO WAIT ON DAYLIGHT
10/15/2008	0:00 - 6:00	6.00	DRLSUR	12	D	P		RIG IDLE WAIT ON DAYLIGHT
	6:00 - 6:30	0.50	DRLSUR	17		P		WARM UP RIG AND HOLD SAFETY MEETING
	6:30 - 7:00	0.50	DRLSUR	05	A	P		TRIP ON HOLE TO DRILL
	7:00 - 23:00	16.00	DRLSUR	02	A	P		DRILL F/130' TO 220'
	23:00 - 23:30	0.50	DRLSUR	04	C	P		CIRCULATE AND CONDITION HOLE FOR TRIP
	23:30 - 0:00	0.50	DRLSUR	05	A	P		TRIP OUT OF HOLE TO WAIT ON DAYLIGHT
10/16/2008	0:00 - 6:00	6.00	DRLSUR	12	D	P		WAIT ON DAYLIGHT TO FINISH DRILLING SURFACE
	6:00 - 6:30	0.50	DRLSUR	17		P		WARM UP RIG HOLD SAFETY MEETING
	6:30 - 7:00	0.50	DRLSUR	05	A	P		TRIP IN HOLE TO FINISH DRILLING SURFACE
	7:00 - 12:30	5.50	DRLSUR	02	A	P		DRILL F/220' TO 267' SURFACE TD
	12:30 - 13:00	0.50	DRLSUR	04	C	P		CIRCULATE AND CONDITION HOLE FOR WIPER TRIP
	13:00 - 14:30	1.50	DRLSUR	05	E	P		WIPER TRIP FOR CASING
	14:30 - 15:30	1.00	DRLSUR	05	D	P		TRIP OUT OF HOLE TO RUN 13 3/8 SURFACE CASING
	15:30 - 17:00	1.50	DRLSUR	11	B	P		RUN 13 3/8 SURFACE CASING// RAN A TOTAL OF 6 JOINTS OF 13 3/8, 48#, H-40, STC CASING SET CASING AT 255'
	17:00 - 19:00	2.00	DRLSUR	15	A	P		RIG UP CEMENTERS AND CEMENT 13 3/8 CASING // 340 SKS CLASS G, 2% CALC2, .25#/ SUPERFLAKE, 3#/SK SUPER GR-1, 15.8#, 1.15 YIELD, 5 GALS/SK, 10 BBLs WATER SPACER, 69.64 BBLs CEMENT, 30 BBLs DISPLACEMENT OF WATER, 30 BBLs CEMENT BACK TO SURFACE, CLOSED CASING IN AND WAIT ON CEMENT.
	19:00 - 0:00	5.00	DRLSUR	12	A			WAIT ON CEMENT // RIG RELEASE @ 23:59 ON OCT. 16TH 2008
10/30/2008	12:00 - 0:00	12.00	RDMO	01	E	P		Rig down and prep for move
10/31/2008	0:00 - 6:00	6.00	DRLIN1	01	E	P		Wait on day light
	6:00 - 18:00	12.00	DRLIN2	01	E	P		RDMO. set up camps on location. The following equipment is on location: Both mud tanks, 1 pump, all houses is set and rigged up. The following equipment has been set off location: mud tank, both generators, VFD, MCC, water tank, shaker skid, air compressors, dog house, derrick has been lowered.
	18:00 - 0:00	6.00	DRLIN2	01	E	P		Wait on day light
11/1/2008	0:00 - 6:00	6.00	DRLIN1	01	B	P		Wait on day light

ROCKIES

Operation Summary Report

Well: WELLINGTON FEDERAL 31-30 SWD

Project: UTAH

Site: CARBON

Rig Name No: SWS #2/2, H&P 298/298

Event: DRILLING

Start Date: 10/8/2008

End Date: 10/16/2008

Spud Date: 10/14/2008

Active Datum: RKB @5,670.01ft (above Mean Sea Level)

UWI: 0/14/S/11/E/30/0/NWNE/6/PM/N/731.00/E/0/2,332.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	6:00 - 18:00	12.00	DRLIN1	01	B	P		Rig up the following equipment: settling tank, suction tank, both mud pumps, VFD, MCC, water tanks, shaker skid, both generators, draw works, both outside piece of substructure. Estimate rig is 70% on location and 30% rigged up. Slow going due to 1st move with trucking company and location by reserve pit not being level
11/2/2008	18:00 - 0:00	6.00	DRLIN1	01	B	P		Wait on day light
	0:00 - 6:00	7.00	DRLIN1	01	B	P		Wait on day light
	6:00 - 18:00	12.00	DRLIN1	01	B	P		MIRU H&P 298. HSM w. IE Miller and rig crews. Square up substructure, install center section, set mud boat, back in "A" leg section of derrick and connect to crown section, connect blocks to top drive, raised shaker, raise substructure, set diesel tank. Replace pop-off valve on drillers side of sub raising cylinder. Shut down for hail storm to pass by. set drilling line spool.
11/3/2008								Finish connecting electrical cables to mud system set shaker skid and tried to level w/ boards, unsuccessful level trip tank and shaker area w/ fork lift. Set shaker and raise. Set BOP handler and transport, set and level diesel tank, connect hydraulic lines to sub and raise, connect hoses to MRC's, raise stabbing boar and derrick board, hand rails and boom poles, get lines off derrick and prep for raising derrick
	18:00 - 0:00	6.00	DRLIN1	01	B	P		Wait on day light
	0:00 - 6:00	6.00	DRLIN1	01	B	P		Wait on day light.
11/4/2008	6:00 - 18:00	12.00	DRLIN1	01	B	P		MIRU H&P 298. HSM with IE Miller and rig crews. String up drill line. Hookup hoses to MRC, And performed bleed process individually. Retarped derrick. Rig up MRC to mast. Raised to floor. Retracted MRC. Raised derrick. Raised D-FUB arm. Rig up electrical to floor. Retracted MRC'S and docked same. Rig down drill side boom poles and tugger lines. Raised driller dog house. Aligned derreck with tracks and from boogie.
	18:00 - 0:00	6.00	DRLIN1					HSM with rig crew . Leveled choke house . Squared up HPU skid. Set stairs from trip tanks to floor and shaker skid. Set flow line. pinned MRC'S. Walk derricks to track and unpin boogie. Assisted raising derrick. Pull cable tray from MCC to VFD and plug in the same. Hookup vibrating hoses. Help welder.
	0:00 - 6:00	6.00	MIRU	12	D	P		Wait on day light.
11/4/2008	6:00 - 14:30	8.50	DRLIN1	01	B	P		Rig up off drller side tugger. Stowed MRC hydraulic lines. Finish hooking up eletrical to floor. Hookup electric to top dog house. Reinstalled stand pipe. Inspect static line from floor to crown. Rig up air lines to rig floor. Unlock electrical breaker, And energized equipment. Rig up gas buster. Start installing tarp. Install ground rods. Replace hydraulic lines on st-80. Help welder. Rig up air jammers air compressor equipment.
	14:30 - 17:00	2.50	DRLIN1	07	B	S		NO CHARGE RIG REPAIR. Trouble shoot PLC issues with draw works. Repair top drive. NO CHARGE TO ANADARKO

ROCKIES
Operation Summary Report

Well: WELLINGTON FEDERAL 31-30 SWD

Project: UTAH	Site: CARBON	Rig Name No: SWS #2/2, H&P 298/298
Event: DRILLING	Start Date: 10/8/2008	End Date: 10/16/2008
Active Datum: RKB @5,670.01ft (above Mean Sea Level)		Spud Date: 10/14/2008
UWI: 0/14/S/11/E/30/0/NWNE/6/PM/N/731.00/E/0/2,332.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	17:00 - 18:30	1.50	DRLIN1	01	B	P		Spool drilling line on draw works, Undock top drive from traveling position to lower position and redock.
	18:30 - 0:00	5.50	DRLIN1	07	B	S		NO CHARGE RIG REPAIR. Trouble shoot issues with top drive and replace leaking seal in top drive
11/5/2008	0:00 - 15:30	15.50	WO/REP	07	A	X		NO CHARGE RIG REPAIR. Trouble shoot issues with top drive and replace leaking seal in top drive.
	16:30 - 0:00	7.50	DRLIN1	13	A	P		NIPPLE UP BOPE AND BLOOIE LINES.
11/6/2008	0:00 - 3:00	3.00	DRLIN1	13	A	P		NIPPLE UP BOPE AND BLOOIE LINES.
	3:00 - 6:00	3.00	PRPSPD	13	C	P		TEST BOPE, TESTED ALL VALVES, CHOKE LINES AND RAMS TO 250 PSI LOW FOR 5 MINS., 2000 PSI FOR 10 MINS. HIGH TESTED CASING TO 1000 PSI FOR 30 MINS.
	6:00 - 11:00	5.00	PRPSPD	13	A	P		FINISH HOOKING UP BLOOIE LINE, KILL LINES,
	11:00 - 0:00	13.00	PRPSPD	01	B	P		INSTALL WIND WALLS, WORK ON STEAM LINES AND START UP BOILER. SET PIPE RACKS AND LOAD WITH BHA. FINISH RIGGING UP.
11/7/2008	0:00 - 2:00	2.00	PRPSPD	01	B	P		CHANGE OUT SAVER SUB, STRING UP WIRELINE SURVEY
	2:00 - 6:00	4.00	PRPSPD	01	B	P		PUT BHA ON RACKS AND STRAP, PICK UP AIR HAMMER AND FILL VDOOR WITH BHA. PUT RIG BACK ON DAYWORK @ 06:00 ON 11/7/2008
	6:00 - 9:00	3.00	PRPSPD	05	A	P		MAKE UP AIR HAMMER AND PICK UP BHA. TRIP IN AND TAGGED CMT @195' INSTALL ROTATING RUBBER.
	9:00 - 10:00	1.00	PRPSPD	04	H	P		FIX LEAKS ON AIR LINES, TIGHTEN FILL UP LINE VALVE. DISPLACE HOLE WITH AIR 2000 CFM.
	10:00 - 12:00	2.00	DRLIN1	02	F	P		DRILL CMT, FLOAT AND SHOE F/195-267 TAGGED BTM AND BLOW HOLE DRY WITH AIR.
	12:00 - 15:30	3.50	DRLIN1	02	A	P		DRILL F/267-535 WITH AIR ONLY 2000 CFM, WOB 5, RPM 15, PSI 199
	15:30 - 16:00	0.50	DRLIN1	09	A	P		RUN WIRELINE SURVEY @ 503' 1.0 DEG.
	16:00 - 17:30	1.50	DRLIN1	02	A	P		DRILL F/535-597 WITH AIR 2000 CFM, WOB 5, RPM 15, PSI 208
	17:30 - 18:00	0.50	DRLIN1	03	A	X		AT CONN. WORKING TIGHT HOLE, FREE UP PIPE AND RAISE CFM TO 3000 CFM
	18:00 - 22:30	4.50	DRLIN1	02	A	P		DRILL F/597-815 WITH AIR 3000 CFM=462 GPM, WOB 5, RPM 15, PSI ON/OFF 245/217, TORQUE ON/OFF 1/1K
	22:30 - 23:30	1.00	DRLIN1	05	E	P		WIPER TRIP TO SHOE. NO TIGHT SPOTS.
	23:30 - 0:00	0.50	DRLIN1	02	A	P		DRILL F/815-840 WITH AIR 3000 CFM=462 GPM, WOB 5, RPM 15, PSI ON/OFF 292/245, TORQUE ON/OFF 1/1K
11/8/2008	0:00 - 4:30	4.50	DRLIN1	02	A	P		DRILL F/840-1037 WITH AIR 3000 CFM=462 GPM, WOB 5, RPM 15, PSI ON/OFF 292/245, TORQUE ON/OFF 1/1K
	4:30 - 5:00	0.50	DRLIN1	09	A	P		WIRELINE SURVEY @998 1.5 DEG.
	5:00 - 12:30	7.50	DRLIN1	02	A	P		DRILL F/1037-1543 WITH AIR 3000 CFM=462 GPM, WOB 5, RPM 15, PSI ON/OFF 292/245, TORQUE ON/OFF 1/1K
	12:30 - 13:00	0.50	DRLIN1	09	A	P		WIRELINE SURVEY @1500 1.0 DEG.
	13:00 - 13:30	0.50	DRLIN1	05	E	P		WORK TIGHT HOLE AFTER SURVEY AND WIPER TRIP TO BHA
	13:30 - 14:00	0.50	DRLIN1	06	A	P		RIG SERVICE
	14:00 - 14:30	0.50	DRLIN1	05	E	P		TRIP IN
	14:30 - 15:00	0.50	DRLIN1	04	G	P		BLOW DOWN WELL AND WASH 20' TO BTM.

ROCKIES
Operation Summary Report

Well: WELLINGTON FEDERAL 31-30 SWD

Project: UTAH

Site: CARBON

Rig Name No: SWS #2/2, H&P 298/298

Event: DRILLING

Start Date: 10/8/2008

End Date: 10/16/2008

Spud Date: 10/14/2008

Active Datum: RKB @5,670.01ft (above Mean Sea Level)

UWI: 0/14/S/11/E/30/0/NWNE/6/PM/N/731.00/E/0/2,332.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
11/9/2008	15:00 - 23:30	8.50	DRLIN1	02	A	P		DRILL F/1543-2145 WITH AIR 3000 CFM=462 GPM, WOB 5, RPM 15, PSI ON/OFF 292/245, TORQUE ON/OFF 1/1K (TD AT 2145')
	23:30 - 0:00	0.50	DRLIN1	04	H	P		BLOW DOWN CLEAN, DISPLACE HOLE WITH WATER
	0:00 - 0:30	0.50	DRLIN1	04	H	P		BLOW DOWN CLEAN, DISPLACE HOLE WITH WATER
	0:30 - 6:00	5.50	DRLIN1	03	B	X		BACK REAM TIGHT HOLE F/2125-1222
	6:00 - 7:00	1.00	DRLIN1	05	E	P		TRIP TO SHOE AND BACK INTO 2015
	7:00 - 10:00	3.00	DRLIN1	03	A	P		WASH AND REAM F/2015-2145'
	10:00 - 12:00	2.00	DRLIN1	04	G	P		CLEAN HOLE AND PUMP HIGH VIS SWEEP.
	12:00 - 14:00	2.00	DRLIN1	05	D	P		TRIP OUT BACK REAM 2 STDS. OUT. L/D 2-8" DC'S AND BIT. (BIT IN GOOD SHAPE NO DAMAGE)
	14:00 - 17:30	3.50	DRLIN1	08	F	P		RIG UP AND LOG WITH HALLIBURTON AND RIG DOWN SAME. LOGGERS DEPTH 2070' TAGGED A BRIDGE.
	17:30 - 20:00	2.50	DRLIN1	11	A	P		RIG UP CASING EQUIPMENT.
11/10/2008	20:00 - 0:00	4.00	DRLIN1	11	B	P		RUN 53 JTS. OF CASING 9 5/8", 32.3#, H-40, STC. TAGGED BRIDGE AT 2050 AND START WASHING CASING DOWN.
	0:00 - 5:00	5.00	CSG	03	A	X		WASH TIGHT HOLE F/2050-2130
	5:00 - 8:00	3.00	CSG	04	G	P		CIRC AND CLEAN HOLE. ATTEMPTING TO PACK OFF. PUMP SWEEPS AND CIRC UNTIL CLEAN. RIG DOWN CASING EQUIPMENT AND RIG UP CMT EQUIPMENT AND HELD SAFETY MTGS WITH ALL HANDS ON LOCATION.
	8:00 - 10:30	2.50	CSG	15	A	P		CMT 9 5/8 CASING WITH SANJEL PUMPED 714 SKS CLASS G CMT, 1.2 YIELD, MIX 5.26, 15.6#, 152.5 BBLs SLURRY, DISPLACE WITH 164.5 BBLs OF WATER, BUMP PLUG 600 PSI OVER LIFT PRESSURE. GOT 10 BBLs OF CMT BACK TO SURFACE.
	10:30 - 15:30	5.00	CSG	13	A	P		LIFT BOPE AND INSTALL SLIPS SET 50K ON SLIPS. NIPPLE DOWN 13 3/8 BOPE AND REMOVE FROM SUB. MAKE FINAL CUT ON 9 5/8 CASING.
11/11/2008	15:30 - 0:00	8.50	CSG	13	A	P		INSTALL B SECTION, PICK UP 11" 5 BOPE AND NIPPLE UP. WELD ON BLOOIE LINE AND ADD FOR BOPE.
	0:00 - 1:00	1.00	CSG	13	A	P		NIPPLE UP BOPE.
	1:00 - 4:00	3.00	CSG	13	C	P		RIG UP AND TEST BOPE, TEST ALL RAMS, VALVES 250 PSI FOR LOW AND 3000 PSI FOR HIGH FOR 10 MINS. TESTED ANNULAR TO 1800 PSI AND FLOOR VALVES TO 3000 PSI. TESTED CASING TO 1200 PSI FOR 30 MINS.
	4:00 - 4:30	0.50	CSG	13	B	P		INSTALL WEAR BUSHING
	4:30 - 9:00	4.50	CSG	13	A	P		FINISH NIPPLE UP ON ROTATING HEAD AND BLOOIE LINE.
	9:00 - 11:30	2.50	DRLPRO	05	A	P		PICK UP BHA AND TRIP TO 1033'
	11:30 - 12:00	0.50	DRLPRO	07	A	P		LEVEL DERRICK
	12:00 - 12:30	0.50	DRLPRO	05	A	P		TRIP IN TAG CMT @ 2068
	12:30 - 13:00	0.50	DRLPRO	04	H	P		UNLOAD HOLE.
	13:00 - 14:00	1.00	DRLPRO	02	F	P		DRILL CMT FLOAT EQUIPMENT F/2068-2145'
	14:00 - 15:00	1.00	DRLPRO	02	A	P		DRILL F/2145-2258 CFM 2800, GMP 430, WOB 3, RPM 25,
	15:00 - 15:30	0.50	DRLPRO	04	G	P		CLEAN HOLE FOR SURVEY.

ROCKIES
Operation Summary Report

Well: WELLINGTON FEDERAL 31-30 SWD

Project: UTAH	Site: CARBON	Rig Name No: SWS #2/2, H&P 298/298
Event: DRILLING	Start Date: 10/8/2008	End Date: 10/16/2008
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UWI: 0/14/S/11/E/30/0/NWNE/6/PM/N/731.00/E/0/2,332.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation
	15:30 - 16:00	0.50	DRLPRO	09	A	P		SURVEY MISS RUN.
	16:00 - 16:30	0.50	DRLPRO	06	A	P		RIG SERVICE
	16:30 - 17:00	0.50	DRLPRO	02	A	P		DRILL F/2258-2354 CFM 2800, GPM 430, WOB 3, RPM 25,
	17:00 - 17:30	0.50	DRLPRO	09	A	P		RUN WIRELINE SURVEY @2315 .75 DEG.
	17:30 - 0:00	6.50	DRLPRO	02	A	P		DRILL F/2354-2900 CFM 2800, GPM 430, WOB 3, RPM 25,
11/12/2008	0:00 - 1:00	1.00	DRLPRO	02	A	P		DRILL F/2900-3015 CFM 2800, GPM 430, WOB 3, RPM 25,
	1:00 - 1:30	0.50	DRLPRO	04	A	P		CLEAN AND BLOW DOWN WELL.
	1:30 - 2:00	0.50	DRLPRO	09	A	P		WIRELINE SURVEY @ 2985 .75 DEG.
	2:00 - 3:30	1.50	DRLPRO	05	E	P		WIPER TRIP TO SHOE NO TIGHT SPOTS.
	3:30 - 12:30	9.00	DRLPRO	02	A	P		DRILL F/3015-3676 CFM 2800, GPM 430, WOB 3, RPM 25,
	12:30 - 13:00	0.50	DRLPRO	04	G	P		CLEAN AND BLOW DOWN WELL.
	13:00 - 13:30	0.50	DRLPRO	06	A	P		RIG SERVICE
	13:30 - 14:00	0.50	DRLPRO	09	A	P		WIRELINE SURVEY @ 3640 1.0 DEG.
	14:00 - 18:00	4.00	DRLPRO	02	A	P		DRILL F/3676-3964 CFM 2800, GPM 430, WOB 3 PSI 390, RPM 25, HIT WATER AT 3950 SMELLS BAD AND IS LOADING UP HOLE.
	18:00 - 20:00	2.00	DRLPRO	05	E	P		WORKED TIGHT HOLE ON BTM F/3964-3954 WIPER 12 STDS TO 2830' TRIP BACK TO 3860'
	20:00 - 20:30	0.50	DRLPRO	04	G	X		BREAK CIRC WITH AIR AND HAVE WATER FLOW. AND PRESURED UP 1000 PSI MAYBE PARTIAL BIT PLUGGED.
	20:30 - 0:00	3.50	DRLPRO	05	A	P		TRIP OUT. BREAK BIT AND IT WAS PLUGGED OFF WITH CLAY LOOKING FORMATION. BIT WAS IN GOOD SHAPE. THE BODY OF THE BIT WAS MISSING A SNAP RING THAT HELPS MAKE IT HAMMER.
11/13/2008	0:00 - 1:30	1.50	DRLPRO	05	A	P		TRIP OUT. BREAK BIT AND IT WAS PLUGGED OFF WITH CLAY LOOKING FORMATION. BIT WAS IN GOOD SHAPE. THE BODY OF THE BIT WAS MISSING A SNAP RING THAT HELPS MAKE IT HAMMER.
	1:30 - 2:30	1.00	DRLPRO	05	A	P		TRIP IN HOLE TO 3870
	2:30 - 3:00	0.50	DRLPRO	04	G	P		UNLOAD HOLE AND TEST HAMMER.
	3:00 - 8:00	5.00	DRLPRO	02	A	P		DRILL F/3964-4340 CFM 2800, GPM 430, WOB 3 PSI 410, RPM 30,
	8:00 - 8:30	0.50	DRLPRO	04	G	P		CIRC HOLE FOR SURVEY
	8:30 - 9:00	0.50	DRLPRO	09	A	P		SURVEY @4302 3.0 DEG.
	9:00 - 10:00	1.00	DRLPRO	02	A	P		DRILL F/4340-4406 CFM 2800, GPM 430, WOB 3 PSI 410, RPM 30,
	10:00 - 11:30	1.50	DRLPRO	04	A	P		CIRC HOLE WITH AIR DRYING TO DRY UP WELL, STARTED TO GET WATER FLOW AROUND 4400' AND WOULD NOT DRY UP. MAKING ABOUT 20-40 BBL/HR. STARTED MISTING
	11:30 - 12:30	1.00	DRLPRO	02	A	P		DRILL F/4340-4406 CFM 2800, GPM 430, WOB 3 PSI 410, RPM 30,
	12:30 - 13:30	1.00	DRLPRO	04	G	P		CLEAN HOLE, MONITOR WATER FLOW. SHUT IN WELL TO WELD ON BLOOIE LINE.
	13:30 - 16:00	2.50	DRLPRO	02	A	P		DRILL F/4406-4434 CFM 2800, GPM 430, WOB 3 PSI 410, RPM 30,
	16:00 - 16:30	0.50	DRLPRO	06	A	P		RIG SERVICE.

ROCKIES

Operation Summary Report

Well: WELLINGTON FEDERAL 31-30 SWD

Project: UTAH

Site: CARBON

Rig Name No: SWS #2/2, H&P 298/298

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Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	16:30 - 20:00	3.50	DRLPRO	02	A	P		DRILL F/4434-4576 CFM 3000, GPM 430, WOB 3-7 PSI 410, RPM 30-40, MISTING WELL 18 GPM OF WATER, 6.5 GAL OF SOAP TRYING TO KEEP HOLE FROM GETTING TO WET.
	20:00 - 20:30	0.50	DRLPRO	04	H	P		PUMPED 100 BBLs OF FLUID IN HOLE.
	20:30 - 0:00	3.50	DRLPRO	05	A	P		TRIP OUT AND L/D HAMMER BIT AND PICK UP MUD MOTOR AND TRI-CONE BIT.
11/14/2008	0:00 - 3:30	3.50	DRLPRO	05	A	P		TRIP OUT AND L/D HAMMER BIT AND PICK UP MUD MOTOR AND TRI-CONE BIT. AND TRIP IN
	3:30 - 4:30	1.00	DRLPRO	02	A	P		DRILL F/4576-4587 WOB 17-20, RPM 50-60, CFM 200, SPM 71,
	4:30 - 5:30	1.00	DRLPRO	07	B	X		PULL 4 STDS TIGHEN SWIVEL PACKING TRIP 4 STDS.
	5:30 - 14:00	8.50	DRLPRO	02	A	P		DRILL F/4587-4840 WOB 17-20, RPM 50-60, CFM 800, SPM 71,
	14:00 - 14:30	0.50	DRLPRO	09	A	P		SURVEY @4780 1 DEG.
	14:30 - 18:00	3.50	DRLPRO	02	A	P		DRILL F/4840-4934 WOB 17-20, RPM 50-60, CFM 250-700, SPM 65-70,
	18:00 - 18:30	0.50	DRLPRO	06	A	P		RIG SERVICE
	18:30 - 0:00	5.50	DRLPRO	02	A	P		DRILL F/4934-5050 WOB 17-20, RPM 50-60, CFM 700, SPM 65,
11/15/2008	0:00 - 6:00	6.00	DRLPRO	02	A	P		DRILL F/5050-5218 WOB 17-20, RPM 50-60, CFM 700, SPM 65,
	6:00 - 7:00	1.00	DRLPRO	04	G	P		PUMP HIGH VIS SWEEP AND CIRC.
	7:00 - 7:30	0.50	DRLPRO	05	E	P		WIPER TRIP 7 STDS. NO TIGHT SPOTS
	7:30 - 9:00	1.50	DRLPRO	04	C	P		CIRC AND SPOT HIGH VIS SWEEP ON BTM FOR LOGS.
	9:00 - 11:30	2.50	DRLPRO	05	B	P		DROP SURVEY, TRIP OUT AND L/D MOTOR AND BIT. SURVEY 5154 2 DEG.
	11:30 - 12:00	0.50	DRLPRO	06	A	P		RIG SERVICE CHANGE DIES OUT IN GRABBER.
	12:00 - 12:30	0.50	DRLPRO	13	B	P		PULL WEAR BUSHING
	12:30 - 18:00	5.50	EVAPR	08	F	P		RIG UP AND RUN TRIPLE COMB LOGS WITH HALLIBURTON LOGGING.
	18:00 - 21:30	3.50	PROD	05	A	P		PICK UP BIT, BIT SUB AND TRIP IN.
	21:30 - 22:30	1.00	PROD	04	A	P		CIRC AND COND
	22:30 - 0:00	1.50	PROD	05	A	P		L/D PIPE
11/16/2008	0:00 - 2:30	2.50	CSG	05	D	P		L/D PIPE AND BHA
	2:30 - 9:00	6.50	CSG	11	B	P		RIG UP CASING EQUIPMENT AND RUN 117 JTS OF 7" 23#, J-55, LTC,
	9:00 - 9:30	0.50	CSG	03	A	P		WASH 80' TO BTM. STARTED TO GET TIGHT.
	9:30 - 10:00	0.50	CSG	04	E	P		CIRC AND RIG DOWN CASING EQUIPMENT.
	10:00 - 14:00	4.00	CSG	15	A	P		RIG UP AND CMT 7" CASING PUMPED PREFLUSH 20 SK LITEFILL=10 BBLs, LEAD LITEFILL 370 SKS, 138.3 BBLs OF 12.5#, 2.1 YIELD 11.79 GAL/SK, TAIL 170 SKS GLASS G 34.8 BBLs OF 15.8#, 1.15 YIELD, 4.97 GAL/SK. BLUMPED PLUG AND FLOATS HELD.
								DID NOT GET CMT BACK TO SURFACE, HAD GOOD RETURN MOST OF THE TIME. WITH WATER FLOW AT THE START OF THE CMT JOB.
								LIFT PSI OF 1000 BUMPED AT 1550
								RIG DOWN SANJEL
	14:00 - 18:00	4.00	CSG	13	A	P		NIPPLE DOWN, SET SLIPS, CUT OFF 7" CASING , NIPPLE DOWN BOPE AND CLEAN MUD TANKS.
								RELEASED RIG @ 18:00 ON 11/16/08

ROCKIES

Operation Summary Report

Well: WELLINGTON FEDERAL 31-30 SWD

Project: UTAH

Site: CARBON

Rig Name No: SWS #2/2, H&P 298/298

Event: DRILLING

Start Date: 10/8/2008

End Date: 10/16/2008

Spud Date: 10/14/2008

Active Datum: RKB @5,670.01ft (above Mean Sea Level)

UWI: 0/14/S/11/E/30/0/NWNE/6/PM/N/731.00/E/0/2,332.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	18:00 - 0:00	6.00	SUSPEN	01	E	P		RIG DOWN AND MOVE RIG TO NBU 922-18K2DS

ROCKIES
Operation Summary Report

Well: WELLINGTON FEDERAL 31-30 SWD

Project: UTAH

Site: CARBON

Rig Name No:

Event: COMPLETION

Start Date: 11/14/2008

End Date: 12/3/2008

Spud Date: 10/14/2008

Active Datum: RKB @5,670.01ft (above Mean Sea Level)

UWI: 0/14/S/11/E/30/0/NWNE/6/PM/N/731.00/E/0/2,332.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
11/14/2008	-		COMP	37		P		MIRU; PHOENIX WIRELINE SAFETY MEETING RIH W/ GAUGE RING & JUNK BASKET, POOH PBT 5,144' RIH W/ PERF GUNS, SHOT PERFS @ 4,390' - 4,430' 4 SPF 90 DEG, 23G, 0.39 4,512' - 4,574' 4 SPF 90 DEG, 23G, 0.39 4,598' - 4,642' 4 SPF 90 DEG, 23G, 0.39 4,654' - 4,674' 4 SPF 90 DEG, 23G, 0.39 4,806' - 4,886' 4 SPF 90 DEG, 23G, 0.39
11/15/2008	-		COMP	33		P		MIRU SANJEL PUMP TRUCKS AND TEFTELLER SLICK LINE TRUCK. HOLD SAFETY MEETING; RIH W/ SLICK LINE PRESSURE TOOLS, SET @ CENTER OF PERFS. PUMP STEP RATE TEST. STARTED @ 1 BBL/MI, INCREASED RATE @ 1/2 BBL/MIN FOR ISIP 700 PSI MAX PRESS 1200 PSI. RDMO EQUIPMENT
11/16/2008	7:00 - 18:00	11.00	COMP	30	A	P		7:00 AM MOVE RIG & EQUIP FROM WELLINGTON FED. # 43-06, TO WELLINGTON FED. SWD # 31-30, (6.0 MI), SET EQUIP, STAND UP RIG, BLEED PRESS OFF WELL, CONTROL, REMOVE C-FLANGE & 7" FRAC VALVE, INSTALL & TEST BOP, WAIT ON PACKER ETC, TALLY & PICK UP 31/2" DURA-LINE TBG # WEATHERFORD ARRO-SET 1 PACKER & ON/OFF TOOL, RIH TO 3700', CLOSE WELL IN FOR NIGHT, 6:00 PM SDFD
12/2/2008	7:00 - 13:00	6.00	COMP	30	C	P		7:00 AM BLEED PRESS OFF WELL, CONTROL, CONT PICKING UP 31/2" DURA-LINE TBG, (138 JTS TTL), CIRC HOLE W/ TREATED WTR, SET PACKER @ 4351.38, EOT @ 4361.05', LAND TBG ON FMC DONUT W/ 10,000# COMPRESSION ON TBG, RIG UP FLOOR, STRIP OFF BOP, INSTALL 5,000# X-MAS TREE, TEST FLANGE ETC TO 5,000#M HELD, PRESS TEST CSG, PKR, ETC., TO 1150#, LOST 20# IN 30 MIN. PERIOD, WITNESSED BY STATE OF UTAH, BLEED OFF PRESS, CLOSE WELL IN, LAY DOWN RIG, LOAD EQUIP, 1:00 PM STOP TIME
	13:00 - 13:00	0.00	RDMO	47		P		FINAL REPORT
	13:00 - 13:00	0.00	RDMO	47		P		SUMMARY: MIRU, PU PKR & 31/2" DURA-LINE TBG, CIRC HOLE W/ TREATED WTR, SET PKR, TEST.
12/3/2008	-		COMP			P		MOVE IN DOZER & BLADE; CLOSE DRILLING PIT. CONNTOUR LOCATION & RESEED. GRAVEL LOCATION. SET PUMP SKID; SET 4 500 BBL TANKS. MAKE UP PIPE CONNECTIONS AND ELECTRICAL.



January 27, 2009

Mr. Chris Kierst
Utah Department of Natural Resources
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake city, Utah 84114-5801

Re: Kerr-McGee Oil & Gas Onshore LP
UIC Permit Applications – Cardinal Draw Field
Final Permit Application Information
Wellington Federal 41-25
Wellington Federal 31-30
Carbon County, Utah

Dear Mr. Kierst,

Attached for your review is the final information needed to complete our UIC applications for the above referenced wells.

- Cement Bond Logs with Gamma/CCL/VDL
- Well Bore Diagrams
- Structure Map

If you have any questions or require additional information please feel free to contact me at 720-929-6728 or Tyson Schwartz at 720-929-6249.

Thank you for your help with this matter.

Very truly yours,

A handwritten signature in black ink, appearing to read "Ed G. Schicktanz", written over a horizontal line.

Ed G. Schicktanz
Supervisor Environmental & Regulatory Affairs
Anadarko Petroleum Corporation

RECEIVED

JAN 28 2009

DIV. OF OIL, GAS & MINING

Hi Ed,

It is true that you provided offset disposal well connate water sample analyses to us in the original proposal for these wells. I replied to Buys & Associates with a Permit Analysis Document that indicated that we wanted samples from the new wells also. That said, I conferred with Brad Hill a few minutes ago, and he agreed that in this case we would opt to accept the samples from the offset wells as reasonably representative of the proposed injection zones based on previous permitting connate water sample analyses submissions in Carbon and Emery Counties. We generally prefer to get fresh sample analyses for new disposal wells that push out the limits of the greater injection field into Glen Canyon Group injection zone aquifers. We will forego this preference as regards these wells. Thank you for your quick response! If such an opportunity gracefully, economically and scientifically arises (open new perms in permitted interval, etc.?) for either/both well(s) in the future, please be so kind as to grab some samples for us.

>>> "Schicktanztanz, Ed" <Ed.Schicktanztanz@anadarko.com> 2/26/2009 6:57 AM >>>

Chris, I thought we provided samples of water taken from identical wells in the area. do you still need samples from these wells.

Thanks

ED

From: Chris Kierst [mailto:CHRISKIERST@utah.gov]
Sent: Tuesday, February 24, 2009 11:13 AM
To: Schwartz, Tyson
Cc: Schicktanztanz, Ed
Subject: RE: Wellington Federal 31-30 SWD and Wellington Federal 41-25

Hi Tyson and Ed,

While perusing the files for these wells, I noticed that we lacked copies of analyses of the connate waters of the injection zones in both these wells. Please forward copies of the subject analyses for our files.

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Hi Tyson and Ed,

While perusing the files for these wells, I noticed that we lacked copies of analyses of the connate waters of the injection zones in both these wells. Please forward copies of the subject analyses for our files.

Thank you very much. I owe you one on this.

ED

From: Chris Kierst [mailto:chriskierst@utah.gov]
Sent: Thursday, February 26, 2009 8:34 AM
To: Schicktan, Ed
Subject: RE: Wellington Federal 31-30 SWD and Wellington Federal 41-25

Hi Ed,

It is true that you provided offset disposal well connate water sample analyses to us in the original proposal for these wells. I replied to Buys & Associates with a Permit Analysis Document that indicated that we wanted samples from the new wells also. That said, I conferred with Brad Hill a few minutes ago, and he agreed that in this case we would opt to accept the samples from the offset wells as reasonably representative of the proposed injection zones based on previous permitting connate water sample analyses submissions in Carbon and Emery Counties. We generally prefer to get fresh sample analyses for new disposal wells that push out the limits of the greater injection field into Glen Canyon Group injection zone aquifers. We will forego this preference as regards these wells. Thank you for your quick response! If such an opportunity gracefully, economically and scientifically arises (open new perms in permitted interval, etc.?) for either/both well(s) in the future, please be so kind as to grab some samples for us.

>>> "Schicktan, Ed" <Ed.Schicktan@anadarko.com> 2/26/2009 6:57 AM >>>

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Cc: Schicktan, Ed
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Hi Tyson and Ed,

While perusing the files for these wells, I noticed that we lacked copies of analyses of the connate waters of the injection zones in both these wells. Please forward copies of the subject analyses for our files.

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT
STATEMENT OF BASIS**

Applicant: Kerr-McGee Oil & Gas Onshore, L.P. **Well:** Wellington Federal 31-30

Location: T14S, R11E, S30, Carbon County, Utah **API:** 4300731375

Ownership Issues:

The well is located on Federal surface and mineral lands administered by the Bureau of Land Management. The operator has provided the Division an Affidavit of Mailing specifying that a copy of the application for a Class II Injection Well permit was sent to all operators, owners and surface owners within a half-mile of the proposed injection well.

Well Integrity:

Description of the Casings and Cement:

CASING PROGRAM

<u>String Type</u>	<u>Hole Size</u>	<u>Depth</u>	<u>Feet</u>	<u>Casing Diameter</u>	<u>Weight</u>	<u>Grade</u>	<u>Connection Type</u>
Surface	17½"	255'	?	13 3/8"	48#	H-40	?
Intermediate	12½"	2,070'	?	9 5/8"	32.3#	H-40	?
Production	8¾"	5,203'	?	7"	23#	J-55,	?

CEMENT PROGRAM

<u>String Type</u>	<u>DV Depth</u>	<u>Stage</u>	<u>Cement</u>	<u>Cement</u>	<u>Number</u>	<u>Cement Type</u>	<u>Cement</u>	<u>Cement Weight</u>
		<u>Lead/Tail</u>	<u>Bottom</u>	<u>Top</u>	<u>Sacks</u>		<u>Yield</u>	<u>PPG</u>
Surface	-	-	-	Surface	340	Class G	1.15	15.0
Intermediate	-		-	Surface	714	Class G	1.2	15.6
Production	-	Lead Tail	-	1,548 (CBL)	370 170	Class G	2.1 1.15	15.8 ?

Ground Water Protection:

The operator, Kerr-McGee Oil & Gas Onshore, L.P., proposes to inject field Ferron (Coal) Member CBM produced water mixture through selective perforations into Glen Canyon Group for the purpose of salt water disposal. The perforations span

an interval between 4,390 feet and 4,886 feet of depth. The Division of Oil, Gas and Mining (DOGGM) have elected to accept analyses of produced and connate waters from nearby offset wells as representative of both those injected into this well and contained within the injection interval, respectively. It is unlikely that a good quality ground water resource is to be found in the Glen Canyon Group in this area and, particularly, at the depths penetrated in the subject proposed injection well. Owing to spudding into the Mancos Shale, it is probable that the first water reported during drilling was encountered in the Cretaceous age Ferron Member CBM zone, which was picked at a depth of 723 feet.

The operator asks permission to inject at a Maximum Allowable Surface Injection Pressure of 1,400 psi based on current working injection pressure limitations in similar nearby permitted injector wells.

The upper primary confining layers between the injection zones and the Ferron production zone are the anhydrites, shales and limestones of the Jurassic age Carmel Formation and the Mancos Shale section below the Ferron Member. The lower primary confining layer is the Chinle Formation. Electric logs from the Wellington Federal 31-30 display relatively well developed anhydrite beds, indicative of anomalous local evaporite development.

In this area, the sandstones of the Glen Canyon Group are not considered Underground Sources of Drinking Water (USDW; a water source containing less than 10,000 mg/l, total dissolved solids).

There are no subsurface water rights filed within a mile of the Wellington Federal 31-30.

An analysis of the Cement Bond Log was undertaken to evaluate the quality of the bond over the confining interval in the well. There is about 111' of net discontinuous 80% bonded cement in the cased interval below the Ferron Sand and above the injection perforations (over 3000'). The CBL was not run at pressure to minimize the formation of a microannulus. The cement bonding of the production casing should be adequate to prevent interzone communication.

Oil/Gas & Other Mineral Resources Protection:

In this area coal bed methane is the only mineral resource that is currently being exploited in the strata that have been penetrated in this well.

Historically, coal has been extracted from nearby mines along the Book Cliffs that have been developed in superjacent Cretaceous strata.

The nearest conventional oil and gas development is about 5 miles to the southeast at the largely abandoned (one active well remaining) Farnham Dome Field.

A review of the well records of the Division of Oil, Gas and Mining revealed that no other well is within the one-half mile regulatory area of review.

Bonding:

Kerr-McGee Oil & Gas Onshore, L.P., has posted nationwide blanket bond #RLB005238 filed with the Bureau of Land Management. Information regarding the details of the bond is obtainable from that agency.

Actions Taken and Further Approvals Needed:

Notice of this application was published in the Salt Lake Tribune and the Price, Utah, Sun Advocate. In addition, copies of the notice were provided to EPA Region 8, the BLM Vernal Field Office, Carbon County Planning and the operator. The notice stated the proposed interval for injection to be selective zones in the sandstones of the Glen Canyon Group. Any future injection into strata other than that permitted will require administrative approval after appropriate sampling and testing.

After reviewing their documentary submission and application, it is my conclusion that Kerr-McGee Oil & Gas Onshore, L.P., ought to be granted a permit to utilize the Wellington Federal 31-30 SWD well for injecting field produced water into the proposed Formations. The proposed operations would not result in any meaningful diminution in the quality of the noxious formation water. No negative impacts on any superjacent high quality ground water resource are anticipated resultant of the subject permitted operations.

A properly designed and constructed injection well, combined with periodic mechanical integrity tests (MIT), demonstrably poses no threat to fresh or useable groundwater supplies. On 12/2/08 the operator conducted a successful MIT on this well that was witnessed by Mr. Mark Jones, an inspector from the Division's Price, Utah, office. The Division staff recommends administrative approval of this application.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Christopher J. Kierst Date: 4/22/2009



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

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-347.1

Operator: Kerr-McGee Oil & Gas Onshore, L.P.
Wells: Wellington Federal 31-30
Location: Section 30, Township 14 South, Range 11 East (SLBM)
County: Carbon
API No.: 43-007-31375
Well Type: Salt Water Disposal Well

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on April 23, 2009.
2. Maximum Allowable Surface Pressure: 1,400 psi.
3. Corresponding Injection Rate: As limited by pressure.
4. Injection Interval: Perforated interval from 4,390' to 4,886'.

Approved by:

Gil Hunt
Associate Director

4-28-09

Date

GLH/CK/js

cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Price
Carbon County Planning
Well file

N:\O&G Reviewed Docs\ChronFile\UIC\Kerr-McGee





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

April 28, 2009

Tyson Schwartz
Kerr-McGee Oil & Gas Onshore, L.P.
1099 18th St, Suite 17002
Denver, CO 80202

Subject: Wellington Federal 31-30 Salt Water Disposal Well, Section 30, Township 14 South, Range 11 East (SLBM), Carbon County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II salt water disposal well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Kerr-McGee Oil & Gas Onshore L.P.

If you have any questions regarding this approval or the necessary requirements, please contact Christopher Kierst at (801) 538-5337 at this office.

Sincerely,

Gil Hunt
Associate Director

GLH/CK/js

cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Price
Carbon County Planning

Well File

N:\O&G Reviewed Docs\ChronFile\UIC\Kerr-McGee



ANN PUCHALSKI

**STAFF GEOLOGIST
ROCKIES DIVISION**



1099 18TH STREET, SUITE 1800, DENVER, CO 80202-1918

Email: Ann.Puchalski@anadarko.com

DIRECT: 720-929-6008

FAX: 720-929-7008

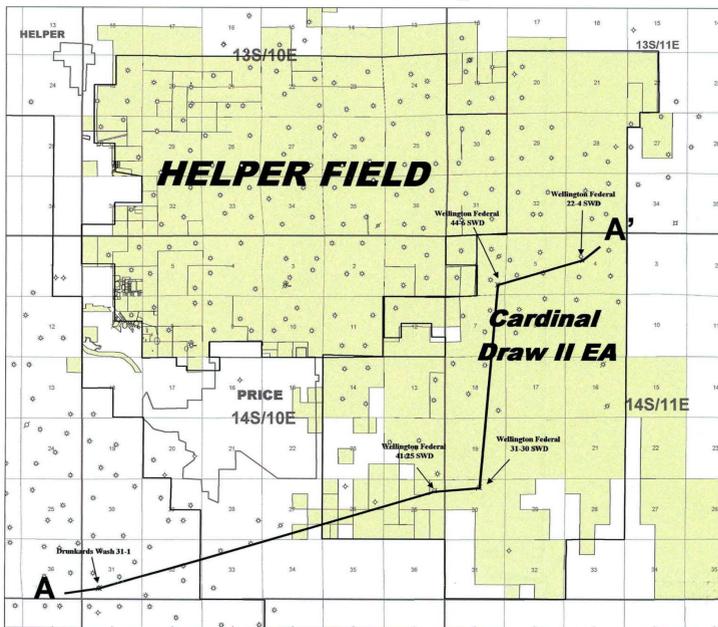
MAIN: 720-929-6000

Stratigraphic Cross Section Flattened on Top Carmel

Carbon County, Utah

RECEIVED
MAY 05 2009
DIV. OF OIL, GAS & MINING

Location Map



Top Navajo Structure Map

