



## WESTPORT OIL AND GAS COMPANY, L.P.

June 11, 2004

1670 Broadway Suite 2800 Denver Colorado 80202  
Telephone: 303 573 5404 Fax: 303 573 5609

FEDERAL EXPRESS

*2 packages*Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, UT 84114-5801

Attn: Ms. Diana Mason

RE: Application(s) For Permit To Drill  
 Eleven (11) Well Applications  
Township 14 South – Range 11 East  
 Wellington Federal 22-04 SWD ✓  
Township 13 South – 11 East  
**North Bench State 24-13**  
 North Bench Federal 12-20  
 North Bench Federal 24-20  
 North Bench Federal 23-28  
 North Bench Federal 34-28  
 North Bench Federal 21-29  
 North Bench Federal 22-29  
 North Bench Federal 23-29  
 North Bench Federal 41-29  
 North Bench Federal 43-29  
 Carbon County, Utah

RECEIVED  
 JUN 16 2004  
 DIV. OF OIL, GAS & MINING

Dear Ms. Mason

Please find enclosed two (2) originals and one (1) copy of the Application For Permit To Drill for each of the subjected wells for your consideration and approval. Also, included in this package is a Master Drilling Program for the Cardinal Draw – Ferron Coal 2004 Project.

We thank you in advance for your cooperation and assistance in these matters. Should any questions or suggestions arise, please do not hesitate contacting the undersigned or the senior operations engineer of the Project, David Gomendi at (303) 607-3472.

Very truly yours,  
 WESTPORT OIL AND GAS COMPANY, L. P.

*Debby J. Black*  
 Debby J. Black  
 Engineering Technician

xc: David Gomendi

*Second ✓*

001

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO. UTU-80560	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:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER <u>SWDW</u> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: <b>WESTPORT OIL AND GAS COMPANY, L. P.</b>				9. WELL NAME and NUMBER: Wellington Federal 22-04 SWD	
3. ADDRESS OF OPERATOR: CITY STATE ZIP <b>1670 Broadway - Suite 2800 Denver, CO 80202-4800</b>			PHONE NUMBER <b>(303) 573-5404</b>	10. FIELD AND POOL, OR WILDCAT: <del>Heiper Field - Navajo</del> <i>Undiscovered</i>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1500' FWL, 2350' FNL Lat: 39.638939 Long: 110.696894 AT PROPOSED PRODUCING ZONE: Same 4387524Y -110.69610				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SEW, Sec. 4, T 14 S, R 11 E, S.L.B.& M.	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approximately 11 miles NE from Price, UT				12. COUNTY: Carbon	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 2350'		16. NUMBER OF ACRES IN LEASE: 2007 acres		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 160 acres	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) ~3559'		19. PROPOSED DEPTH: 5930'		20. BOND DESCRIPTION: BLM Bond CO1230	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5877' Ungraded Ground Level		22. APPROXIMATE DATE WORK WILL START: Upon APD Approval		23. ESTIMATED DURATION: 8 days drilling plus 9 days completion	

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
24"	20" Conductor	0 - 40'	28 sxs Premium AG
17.5"	13.375" 48# J-55 ST&C	0 - 400'	20 bbl spacer w/ gel water. 475 sxs Premium AG. Slurry yield 1.16 cu. ft. / sack, 15.80# / gal w/ 2% CaCl, 0.125# per sack Poly E Flakes
12.25"	9.625" 40# J-55 ST&C	0 - 2500'	20 bbl spacer. 180 sxs Premium AG w/ 1% CaCl and 0.125# per sack Poly E Flakes. Slurry yield of 1.83 cu. ft. per sack
8.75"	7" 26# J-55 ST&C	0 - TD	300 sxs 50/50 Poz mix w/ 5% Bentonite Lite, 8% Cal Seal 60. Slurry yield 1.34 cu. ft. per sack

25. **ATTACHMENTS**

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input 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) David A. Gomendi TITLE Senior Operations Engineer

SIGNATURE *David Gomendi* DATE June 8, 2004

(This space for State use only)

API NUMBER ASSIGNED: 43-007-30967

(11/2001)

RECEIVED  
JUN 16 2004

APPROVAL: **Approved by the** V. OF OIL, GAS & MINING  
**Utah Division of**  
**Oil Gas and Mining**

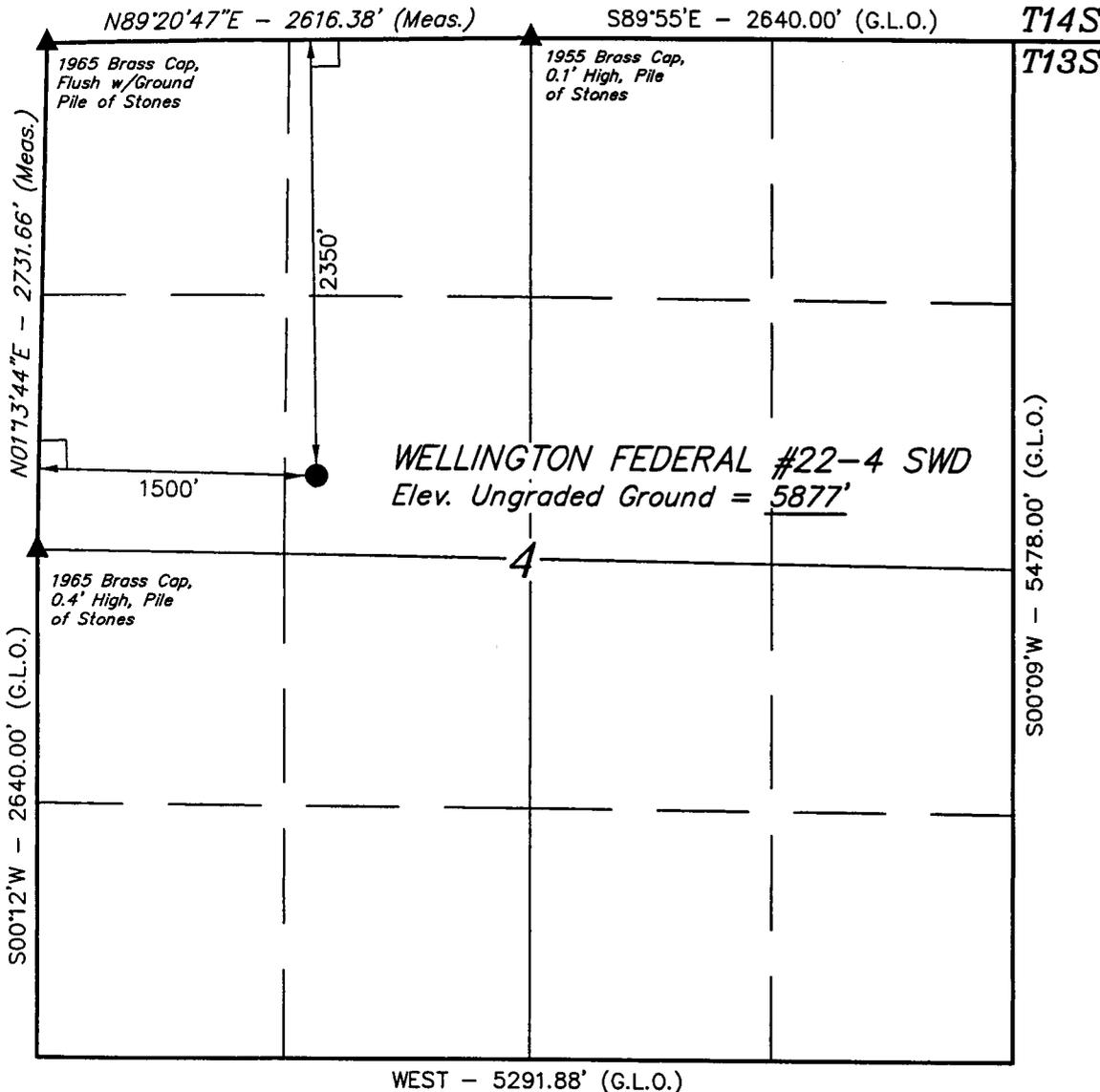
Date: 06-17-04  
By: *[Signature]*

**Federal Approval of this Action is Necessary**

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

WESTPORT OIL AND GAS COMPANY, L.P.

Well location, WELLINGTON FEDERAL #22-4 SWD, located as shown in the SE 1/4 NW 1/4 of Section 4, T14S, R11E, S.L.B.&M. Carbon County, Utah.

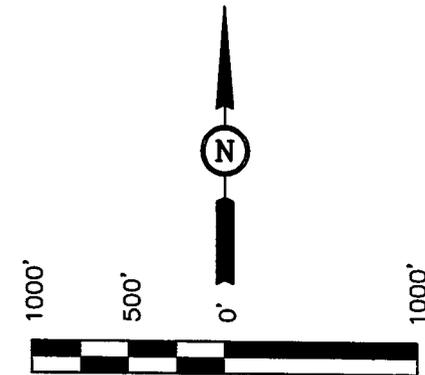


**BASIS OF ELEVATION**

SPOT ELEVATION LOCATED ON A JEEP TRAIL IN THE NW 1/4 OF SECTION 32, T13S, 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 6460 FEET.

**BASIS OF BEARINGS**

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



SCALE

**CERTIFICATE**

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

*Robert A. Key*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

**LEGEND:**

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

(AUTONOMOUS NAD 83)  
 LATITUDE = 39°38'20.18" (39.638939)  
 LONGITUDE = 110°41'48.82" (110.696894)

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

SCALE 1" = 1000'	DATE SURVEYED: 5-11-04	DATE DRAWN: 5-12-04
PARTY D.K. L.M. C.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE WESTPORT OIL AND GAS COMPANY, L.P.	

**WESTPORT OIL AND GAS COMPANY, L.P.**  
**FERRON COAL PROJECT**  
**WELLINGTON FEDERAL 22-04 SWD**  
**SENW 1500' FWL, 2350' FNL**  
**Section 4: Township 14 South – Range 11 E, S.L.B.&M.**  
**Carbon County, Utah**

**DRILLING PROGNOSIS:**

1. Prepare location for drilling rig. Drill rat hole and mouse hole.
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 =  $0.70 \times 2380 \text{ psi} = 1650 \text{ psi}$ .
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 trip.
10. 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.
11. 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.
12. 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.
13. After BOP test, test the intermediate casing to 3000 psi.
14. Drill stage collar, float shoe and 10' of new formation. Run shoe test to 10.5 ppg EMW.
15. Drill 8.875" hole to Total Depth (estimated @ 5930').
16. Run open hole logs as specified in the logging section of Master Drilling Program.
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.

**MASTER DRILLING PROGRAM**  
**Well Helper Field - Ferron Coal Program**  
**Cardinal Draw Prospect**  
**Sections 18, 20, 28 and 29: Township 13 South – Range 11 East**  
**Section 4: Township 14 South – Range 11 East**  
**Carbon County, Utah**

**Operator: Westport Oil and Gas Company, L. P.**

**INTRODUCTION**

WESTPORT OIL AND GAS COMPANY, L. P., (Westport) proposes Well Helper Field Ferron Coal Program in Cardinal Draw Prospect 2004 located within Carbon County, Utah. The Well Helper Field Ferron Coal Project (Project) consists of ten (10) proposed locations. Nine (9) of the wells are located in Sections 18, 20, 28, and 29 Township 13 South – Range 11 East and one (1) well in Section 4 Township 14 South – Range 11 East. Nine of the wells will be drilled through the Ferron formation and one well will be drilled through the Navajo/Wingate as a water disposal well. The Project area wells will be accessed from Price, Utah by an improved road which currently exists approximately 9 miles from Price. Note, all improved roads will have water dispersal controls at all changes of slope.

**ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS**

The tables summarizing information for each of the ten (10) wells in the Project are included in this document. In general, the ground elevation ranges from 6348 feet above mean sea level (MSL) to 6860 feet MSL graded at stake. The top of the Ferron of the Mesa Verde Formation lies approximately 3135 feet to 4475 feet below ground surface (BGS) and is 265 feet thick resulting in total approximate depths of 3370 feet to 4710 feet BGS, for the producing wells.

WELL NAME AND NUMBER	LOCATION	TD	GR
North Bench State 24-18	SESW Sec. 18: T 13 S – R 11 E, 1865' FWL, 493' FSL	4860'	6820'
North Bench Federal 12-20	SWNW Sec. 20: T 13 S – R 11 E, 837' FWL, 1691' FNL	4785'	6860'
North Bench Federal 24-20	SESW Sec. 20: T 13 S – R 11 E, 1900' FWL, 1200' FSL	4465'	6738'
North Bench Federal 23-28	NESW Sec. 28: T 13 S – R 11 E, 1455' FWL, 1568' FSL	3670'	6437'
North Bench Federal 34-28	SWSE Sec. 28: T 13 S – R 11 E, 1557' FEL, 1212' FSL	3520'	6348'
North Bench Federal 21-29	NENW Sec. 29: T 13 S – R 11 E, 784' FNL, 2165' FWL	4170'	6632'
North Bench Federal 23-29	SW¼ Sec. 29: T 13 S – R 11 E, 1329' FWL, 1517' FSL	3700'	6528'
North Bench Federal 41-29	NENE Sec. 29: T 13 S – R 11 E, 1214' FEL, 1194' FNL	4075'	6583'
North Bench Federal 43-29	NESE Sec. 29: T 13 S – R 11 E, 733' FEL, 1803' FSL	3750'	6495'
Wellington Federal 22-04 SWD	SENW Sec. 4: T 14 S – R 11 E, 1500' FWL, 2350' FNL	5930'	5877'

WELL NAME AND NUMBER	FORMATION	TOP	BOTTOM
North Bench State 24-18	FERRON COAL	4475'	4710'
North Bench Federal 12-20	FERRON COAL	4370'	4635'
North Bench Federal 24-20	FERRON COAL	4056'	4321'
North Bench Federal 23-28	FERRON COAL	3285'	3520'
North Bench Federal 34-28	FERRON COAL	3135'	3370'
North Bench Federal 21-29	FERRON COAL	3660'	4025'
North Bench Federal 23-29	FERRON COAL	3316'	3541'
North Bench Federal 41-29	FERRON COAL	3690'	3925'
North Bench Federal 43-29	FERRON COAL	3368'	3603'
Wellington Federal 22-04 SWD	NAVAJO/WINGATE	4786'	5628'

## LOCATIONS AND ROAD ACCESS

Location and roads will be built to Bureau of Land Management's standards and specifications.

1. Construction Materials: A list of sources of construction materials, such as sand, gravel or soil, must be submitted along with a description of the intended use of each material.
  - a) Surfacing materials such as scoria or gravel will be purchased from a commercial site in the immediate area.
  - b) No construction materials will be taken from Federal or Indian lands without prior approval from the appropriate Surface Management Agency.
  - c) If production is established, any construction materials required for surfacing of the access road and/or installation of production facilities will be purchased from a commercial site in the immediate area. Fine material for packing of gas and water lines will be obtained by screening spoil materials.
  - d) The gas and water pipeline bedding material will be obtained by screening spoil materials. No commercial products will be required.
  - e) No new access road for transportation of these materials will be required.
  - f) Water for road construction purposes will be acquired from the local municipal water supply and transported to location by truck. No new access road is required for water transport.
  - g) No other construction material will be required for this project.

## PRESSURE CONTROL EQUIPMENT

**Notification will be reported to the proper state and/or federal authorities 24 hours prior to initial BOP test.**

### Blowout Preventer Hook Up

After initial WOC time has expired, a SOW 11" x 8.625" 3000 psi casing head will be installed. Test wellhead weld to 2000 psi with hydraulic oil. BOP equipment will consist of an 11 3000 psi, double ram preventer with blind and pipe rams as well as an annular preventer. An HRC valve will be installed between BOP spool and choke manifold with controls on rig floor. Spool will be located between casing head and BOP's.

Test pipe rams, blind rams and choke manifold to 3000 psi high pressure test and 250 psi low pressure test. Perform this test with a test plug in the casing head and the casing head valve below the test plug

open. Test the annular preventer to 50% of rated working pressure ( $0.50 \times 3000 = 1500$  psi). Test the surface casing to 70% of the internal yield strength ( $0.70 \times 2950$  psi = 2000 psi), refer to BLM Onshore Order # 2, section III A – Well Control Requirements for a complete discussion of BOP, BOPE and Surface Casing testing requirements. Record test results and notate on daily drilling reports to Westport Oil and Gas Company, L. P.

The pipe rams will be operationally checked each 24 hours. Blind rams will be function tested each time pipe is pulled out of the hole, but not more than once every 24 hours. The annular preventer shall be function tested weekly. A BOP pit level shall be conducted weekly for each drilling crew. All BOP function tests and pit drills shall be properly noticed in the IADC tour sheets as they are performed. Studs on all wellhead flanges will be checked for tightness each week. A drill stem safety valve will be set in the open position and readily available on the rig floor at all times. Pipe and blind rams will be tested to 3000 psi high / 250 psi low at least once every 30 days to meet requirements.

Trips required after pressure anomalous zones are penetrated should be made at minimum rate to prevent hole swabbing or pressure surges. **Note: Keep hole full at all times.**

Westport requests that they be allowed to employ the following safety measures and well control equipment on its wells.

1. Prepare location for drilling rig. Drill rat hole and mouse hole.
2. Drill 15" hole to approx. 40'+. Run 12-3/4" plain end pipe as conductor pipe and set.
3. Nipple up diverter to conductor pipe.
4. Drill a 11" hole 10% of the total depth of each well.
5. Run 8.625" surface casing and cement as specified in the casing and cementing sections of this 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.
6. 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.
7. 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.
8. After BOP test, test the surface casing to 70% of burst. Test pressure =  $0.70 \times 2950$  psi = 2000 psi.
9. Drill a 7.875" hole to the total depth with conventional rotary techniques and insert bits and air mud system.
10. Run single point directional survey with every bit trip.
11. Run open hole logs as specified in the logging section.
12. Pending log evaluation, run sidewall cores or prepare to run 5.5" casing and cement in full tension as specified in the casing and cementing section of this Master Drilling Plan.
13. Clean the location and release the drilling rig.

By allowance of the above measures for well control it is Westport's opinion that all operations will be conducted safely.

Attached is a schematic of the BOP Equipment and Choke Manifold.

## LOCATION AND TYPE OF WATER SUPPLY

All water needed for drilling purposes will be obtained from the Price River municipal water source, since these wells will be primarily drilled with air, minimal water is needed. The lined pits will be pumped out and water will be disposed of in approved disposal.

## MUD PROGRAM

The reserve pit will be lined with 9-mil liner.

Drilling fluid will be air and kept in optimum condition at all times. The mud company's representative will also be readily available if any problems are encountered. Representative should plan to be on location prior to and during any logging or casing running operations as well as during the conversion from fresh water to gel system.

Spud in with water. Mix gel and lime as needed to clean the hole prior to running surface casing. 8.625" surface casing will be set at 10% of the total depth of the well.

Interval	Type	Weight	Viscosity, sec	Fluid loss
Surface – 250'	Gel/Lime	8.4 – 8.6	26 - 38	No Control
Surface - T.D.	Air			

Note:

1. Copy of mud engineers daily mud report will include accurate cost estimates and inventory listings.
2. Copies of daily mud reports will be given to drilling foreman and left in doghouse.
3. Morning reports must contain current mud properties requiring the mud engineer to make mud checks before 6:00 a.m.
4. Sweep the hole as frequently as the hole dictates.

## PROPOSED LOGGING PROGRAM

LOGGING TOOL	TOP logged interval	BOTTOM logged internal
Induction/GR/SP	Base of surface casing	Total Depth
CNL-FDC (High Resolution)	For 2000' or to base of surface casing	Total Depth

Electric logs will be acquired when total depth is reached. Short trips prior to logging will be at the discretion of the drilling foreman on location. Viscosity of the mud will be raised to 45 – 50 sec/qt prior to pulling pipe for logs.

The logging contractor will be notified 24 hours in advance.

- Notes:
1. Under no condition will the logging tools be stopped in hole.
  2. Caliper and measure all tools run in hole.

## Drilling Samples

Collect samples as follows: 30' samples from 0 to 2000', 10' samples from 2000' to TD. Well site geologist: Bob Kozarek, home phone (303-321-6180)

## Mud Logging Unit

None.

## Hole Deviation Survey

Surface hole deviation is not to exceed 5 degrees with surveys to be taken at 230', base of surface casing and more often if deviation is indicated. Below surface casing, deviation will not exceed 7 degrees to total depth projected. Below surface, angle changes between surveys will be limited to 1° per survey at 500' intervals.

## Drilling Time

Electronic drilling time recorder (Pason or equivalent) is to be used. **Note:** Down time, lost circulation and deviation surveys along with mud pump pressure, mud checks, weight on bit and rotary rpm are to be recorded at the respective depths. The digital files are to be sent to Westport's Denver office at the end of the hole.

## Surface Hole – 11 Inch Interval

1. Drill a 11" hole to 10% of well's total depth.
2. Circulate and sweep hole as necessary to clean hole.
3. Surface casing will be **new** 8.625" OD.
4. Thread lock the first two joints of pipe and float equipment. Increase torque values by 10 percent when using thread lock. Run casing and install centralizers.

## Casing Selection

Interval	Size	Weight	Grade	Thread	Collapse	Burst
0- 10% TD	8.625"	24	J-55	ST & C	1370	2950

## Design & Safety Factors

Weight	Grade	Thread	Depth	Length	Collapse	Burst	Tensile
24	J-55	ST & C	10% of TD	10% of TD	10+	20+	40+

Notes: All collapse factors account for axial loading.

## Cementing Surface Pipe

1. Circulate up one casing volume (approximately 20 barrels).
2. Work pipe.
3. Pump 10 bbls. water ahead and test lines to 3,000 psi.
4. Mix and pump cement as per program.
5. Release top plug.
6. Reciprocate pipe while cementing and set on bottom as cement rounds the shoe.
7. Bump plug to 750 psi over final lifting pressure. However, do not exceed 2000 psi (70% of internal yield strength). Hold for 1 minute or more and check for flow back. Hold pressure if the float fails.
8. Do not over displace.

9. WOC 8 hours. WOC time will be 8 hours before beginning to nipple up or the minimum amount of time to achieve 500 psi compressive strength based on lab results.
10. Nipple up 11 inch x 3,000 psi BOP.

**Cement Design**

<b>Vendor:</b> Halliburton	Surface Cement
Volume	10% of Total Depth to Surface, estimated 200 sks.
Yield	1.18 cu ft / sack
Mix Water	5.20 gallons / sack
Weight	15.6 ppg
Content	Premium Plus Cement, 2% Calcium Chloride, 0.25#/sk Poly E Flake

**Important:**

1. Cement and water to be used must be checked in the lab for properties before mixing.
  - a) After WOC time has expired and the BOP is installed; if the cement on the outside of the surface casing is not to ground level, top off with either a hot API premium cement or ready mix. Do not use gravel. After reaching total depth and logging the well, Westport’s Denver office will give orders to plug and abandon well, run side wall cores or run 5.5” production casing. **Note: The hole and drilling mud will be in optimum condition prior to running production casing.** Once hole and mud are properly conditioned, drill pipe and collars will be POOH and laid down.

**PRODUCTION CASING AND CEMENT PROGRAM – 7.875” Inch Interval**

After reaching total depth and logging the well, Westport Oil and Gas Company’s representative will give orders to plug and abandon well, run side wall cores or run 5.5” production casing. If production casing is to be run, new 5.5” casing will be run to bottom with appropriate equipment.

The casing will be delivered to location immediately upon the decision to run. It will be racked according to design and each joint numbered and tallied. The drilling foreman will be responsible for accuracy in the racking and tallying process. Each joint will be drifted using API drift. Any joints not drifting properly will be replaced. All joints will be inspected for damaged threads and each thread cleaned prior to running.

Weight	Grade	Thread	Collapse	Burst	Body Yield	Joint Str.
17#	N-80	LT&C	6280	7740	397,000	348,000

Notes: All collapse factors account for axial loading.

Run centralizers on the first 5 joints of casing. The shoe joint should have centralizers on a stop ring five (5) feet up from the shoe. Well site Engineer may revise.

After casing is run, circulate and work casing down until it is one foot off bottom. Circulate hole clean and cement as follows:

1. Rig up cementing company equipment, test lines to 3500 psig.

2. Circulate bottoms up.
3. Pump 10 bbls. of chemical wash or gelled water with flocele.
4. Mix and pump cement.
5. Drop top plug.
6. Displace with water.
7. Bump plug to 750 psi over the final displacement pressure (do not exceed 3300 psi).
8. Hold pressure 1 minute or more.
9. Release pressure and check for flow back.
10. Shut in and hold pressure if the float equipment fails. Wait 8 hours or enough time to attain 500 psi compressive strength.
11. Pick up the BOP and set the casing slips.

Cement volumes are based on raising cement to base of surface with 30% excess. Once logs are obtained, calculate actual hole volume and calculate new cement volumes based on log value plus 10%. Cement Specifications:

### Stage Two Cement Design

<b>Vendor:</b> Halliburton	<b>Lead</b>	<b>Tail</b>
Volume	Cement back to surface casing	Volume sufficient to cover Ferron
Yield	1.97 cu ft / sack	1.60 cu ft / sack
Mix water	9.78 gallons per sack	7.89 gallons per sack
Weight	12.5 ppg	14.2 ppg
Content	50/50 Prem/Poz, 8% Gel total, 10% Cal-Seal and 0.25#/sack Poly E Flake	50/50 Prem/Poz, 10% Cal-Seal, 1% Calcium Chloride, 0.25#/sack Poly E Flake

The cement for the production string will be calculated to cover the entire open hole section and up into the production casing-surface casing annulus plus 30% excess of calculated open hole volume or plus 10% excess of actual open hole volume based upon caliper logs. In all cases a cement bond log will be run to ascertain the top of cement or to determine that it is in fact up into the production casing-surface casing annulus and that all open hole zones are adequately isolated and protected.

This procedure for estimating cement volume has resulted in cement being circulated to surface on the production string for all of the previously drilled wells by Westport Oil and Gas Company, L. P., in this area. It is anticipated that the wells will experience the same results and have cement circulated to surface.

Water may be encountered in any and all of the sandstones penetrated. Shallow freshwater sandstones will be protected by the installation of surface casing that will be cemented to surface. Surface casing will be set to approximately ten percent (10%) of the estimated total depth of the well, as set out in the Master Drilling Plan. The casing will be steel and will be cemented to surface.

Fresh water may be encountered in sandstones below the depth of the surface casing. If production casing is to be run, it will be run and cemented. The plan indicated that sufficient cement will be run to cover the entire open hole section and up into the production casing-surface casing annulus plus excess. The proposal is for the calculated volume plus 30% excess. Actual volume will be determined after open hole logs are run. The calculated annular volume, plus 10% excess will be utilized to bring cement into the production-surface casing annulus. After cementing operations are completed and prior to completion operations commence, a cement bond log will be run. If adequate zonal isolation is not

achieved by primary cementing, remedial cementing will be incorporated. The Bureau of Land Management will be advised if remedial cementing is to be performed.

If it is determined that the well is not commercial and is to be plugged and abandoned, then cement plugs will be placed in the open hole section and in the surface casing sufficient to provide adequate zonal isolation and protection. These cement plugs will be set as prescribed by the appropriate governmental agency.

Natural gas is expected to occur with the Ferron formation. Natural gas may be in either; coals, sandstones, or fractured shale members of the Ferron formation. These zones will be protected as previously stated by the installation of production casing with cement covering and isolated these zones or by cement plugs in the event of a plug and abandonment.

Oil bearing zones or formations are not expected to be encountered at these locations.

No other known commercial minerals are expected to be encountered at these locations, Consequently no other protective measures are contemplated.

The list of formations is as follows for each of the wells:

Formation	Estimated Depths	Description
Mancos	Surface –	Shale and sandstone interbedded
Bentonite	Varies	Bentonite marker bed
Ferron	3,135' – 4,635	Sandstone, coal, and shale interbedded
Tununk	4,635' – Total Depth	Shale

### **Tubing Head**

1. Make a final cut on the 5.5". Set slips – casing in full tension.
2. Install tubing head and protective flange.

### **SURFACE AND MINERAL OWNERSHIP:**

Surface Owner: Department of the Interior, Bureau of Land Management, 82 East Dogwood, Moab, UT 84532.

Mineral Owner: Department of the Interior, Bureau of Land Management, 82 East Dogwood, Moab, UT 84532.

### **ABNORMAL CONDITIONS**

Below-normal pressures are anticipated in the surface and primary hole. The surface sands and the coal are potential zones of lost circulation. Potential for lost circulation will be alleviated by the use of compressed air as the drilling medium.

No hydrogen sulfide (H<sub>2</sub>S) has been encountered in or is known to exist in wells previously drilled to similar depths or to the target coal in the general Project area.

Maximum anticipated bottom hole pressure may be as high as 1076 psig (calculated at 0.433 psi/foot of hole). Maximum anticipated surface pressure may be as high as 840 psig (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.10 psi/foot of hole).

## **PLANS FOR RESTORATION OF THE SURFACE**

The top 6 inches of topsoil material will be removed from the location and stockpiled separately on: *Adjacent undisturbed land in a windrow fashion.*

Topsoil along the access road will be reserved in place adjacent to the road.

Immediately upon completion of drilling, all equipment that is not necessary for production will be removed.

The reserve pit and that portion of the location not needed for production will be reclaimed as soon as practical for natural growth.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.

All disturbed areas will be re-contoured to replicate the natural slope. Pipeline corridors will have trees and rocks dispersed to reduce and discourage public use.

The stockpile topsoil will be evenly distributed over the disturbed area.

Prior to reseeded, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

The BLM's recommended seed mixture will be used.

The abandonment marker will be one of the following, as specified by the BLM:

1. at least four feet above ground level,
2. at restored ground level, or
3. below ground level.

In any case the marker shall be inscribed with the following: operator's name, lease number, well name and surveyed description (township, range, section and either quarter-quarter or footage).

CERTIFICATION STATEMENT

WELL NAME: **Wellington Federal 22-04 SWD**

LEASE NO.: **UTU80560**

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 Drilling, Xcell Well Service*, 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   
David A. Gomendi, Senior Operations Engineer

Dated this 8th day of June, 2004.

**WESTPORT OIL AND GAS COMPANY, L.P.**  
**WELLINGTON FEDERAL #22-4 SWD**  
 LOCATED IN CARBON COUNTY, UTAH  
 SECTION 4, T14S, R11E, S.L.B.&M.

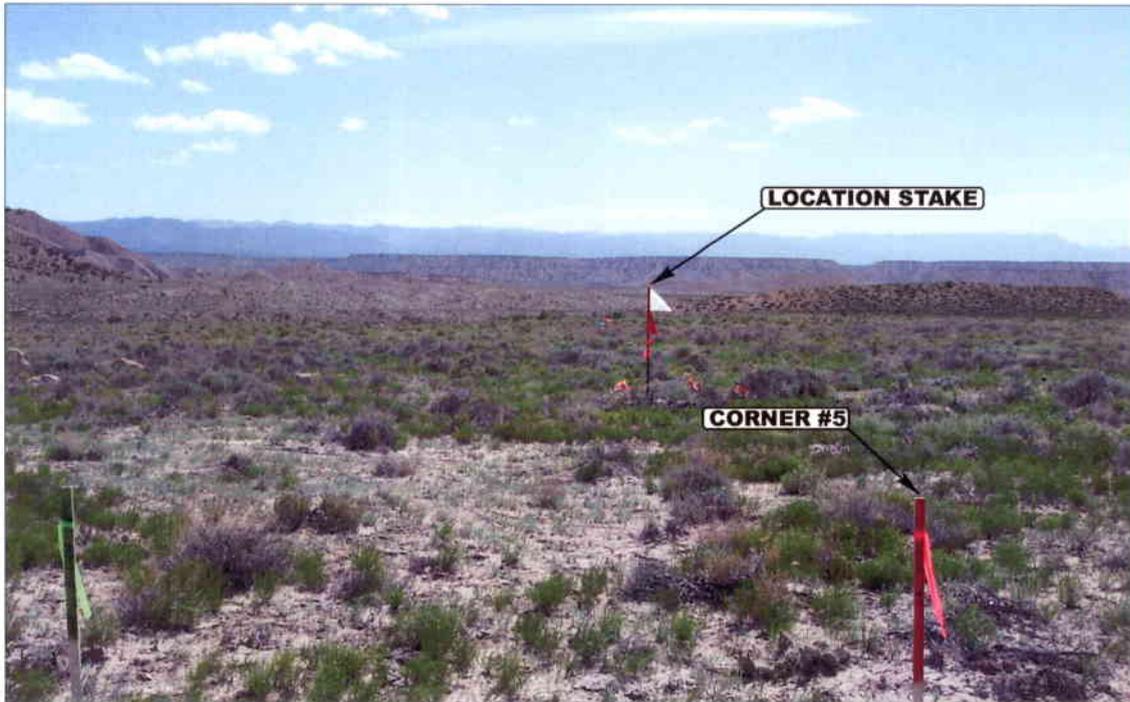


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHERLY



- Since 1964 -

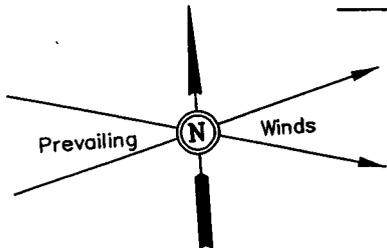
**UELS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

<b>LOCATION PHOTOS</b>	<b>5</b>	<b>13</b>	<b>04</b>	<b>PHOTO</b>
	MONTH	DAY	YEAR	
TAKEN BY: D.K.	DRAWN BY: J.L.G.		REVISED: 00-00-00	

WES' JORT OIL AND GAS COMPA, L.P.

LOCATION LAYOUT FOR

WELLINGTON FEDERAL #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B.&M.  
2350' FNL 1500' FWL



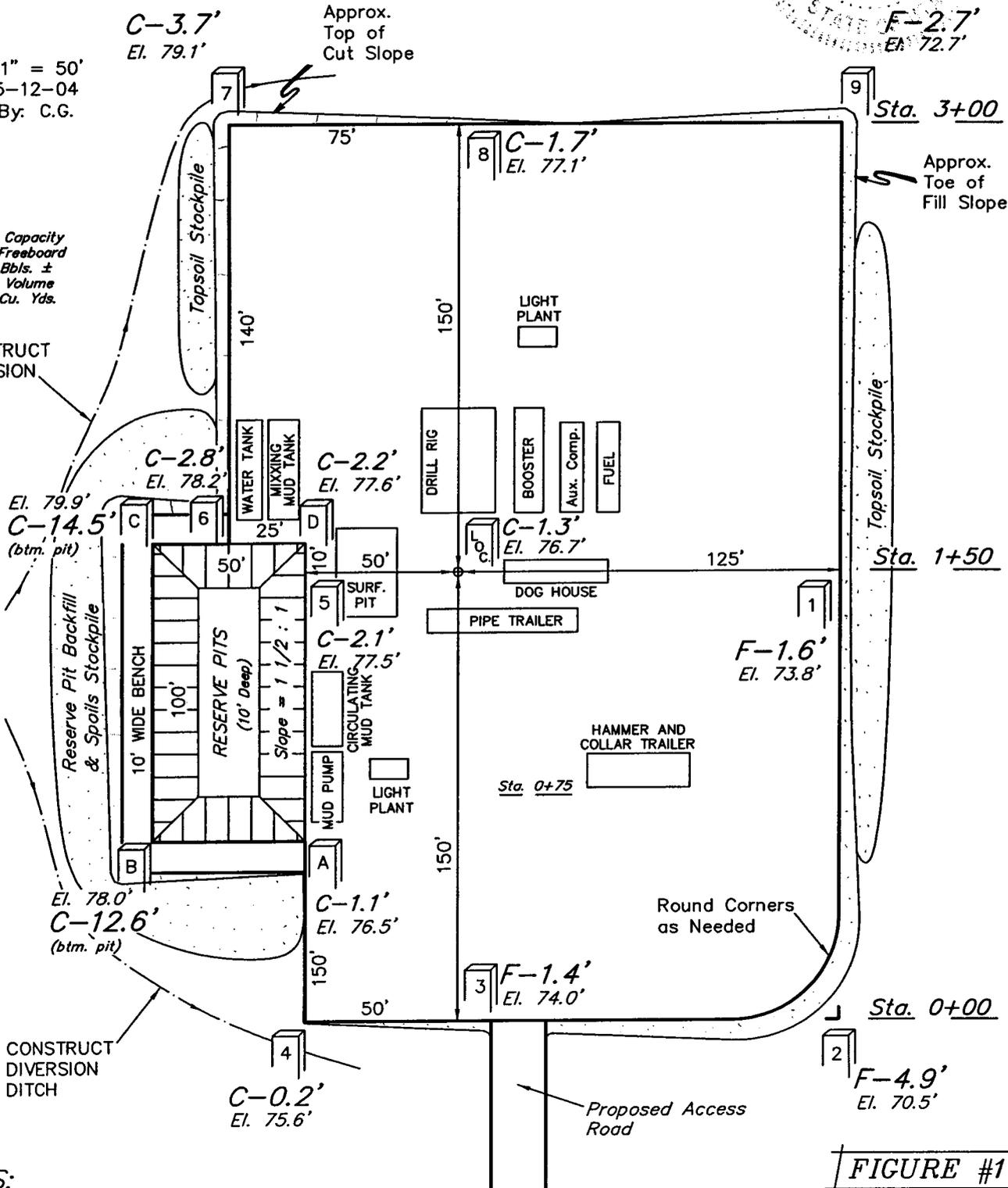
SCALE: 1" = 50'  
DATE: 5-12-04  
Drawn By: C.G.

C-3.7'  
El. 79.1'

Approx.  
Top of  
Cut Slope

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

CONSTRUCT  
DIVERSION  
DITCH



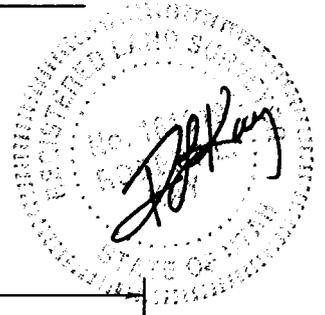
NOTES:

Elev. Ungraded Ground At Loc. Stake = 5876.7'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5875.4'

FIGURE #1

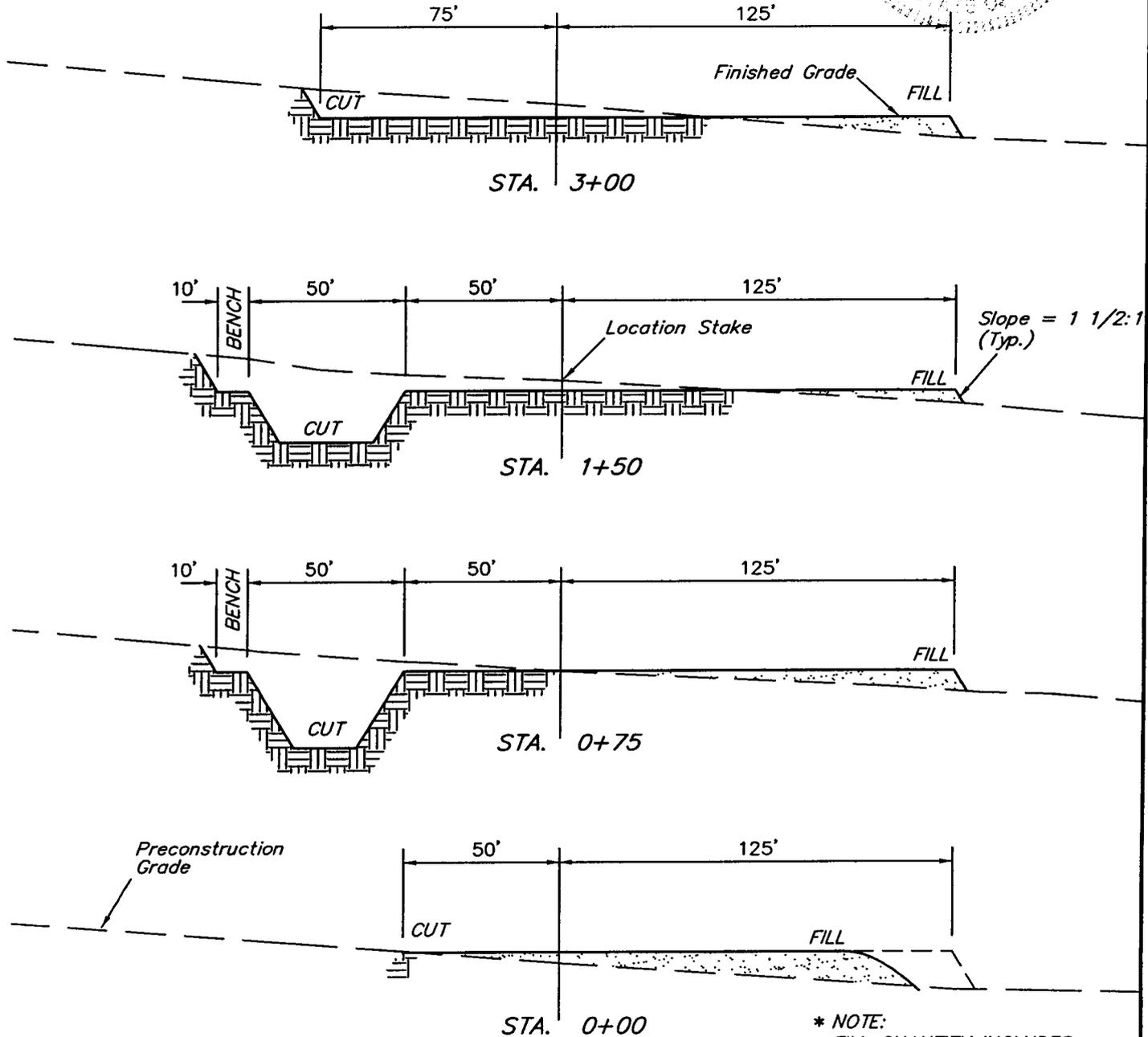
WESPORT OIL AND GAS COMPANY, L.P.

TYPICAL CROSS SECTIONS FOR  
WELLINGTON FEDERAL #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B.&M.  
2350' FNL 1500' FWL



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

DATE: 5-12-04  
Drawn By: C.G.



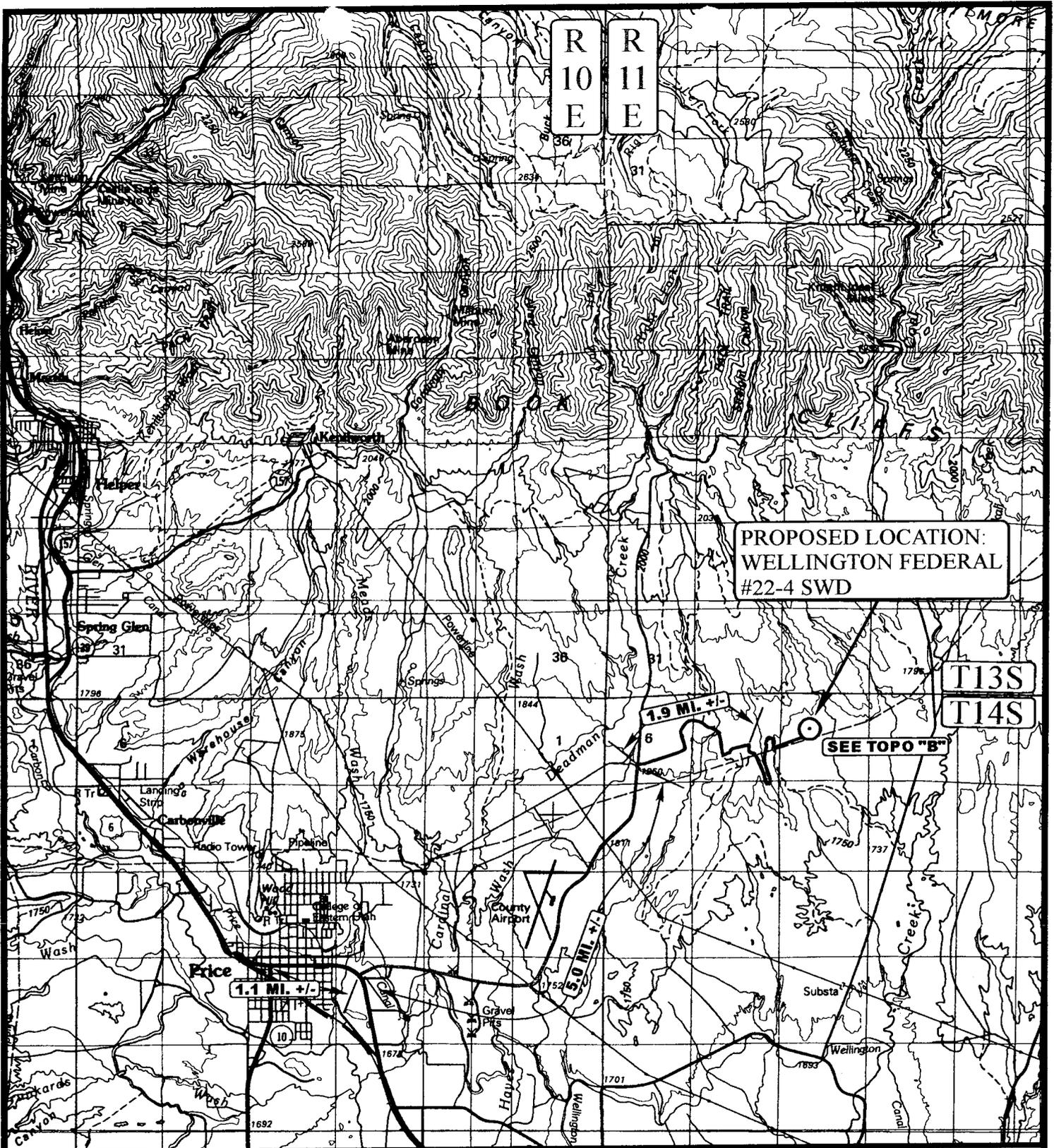
\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

**FIGURE #2**

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,270 Cu. Yds.
Remaining Location	= 2,770 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 4,040 CU.YDS.</b>
<b>FILL</b>	<b>= 2,200 CU.YDS.</b>

EXCESS MATERIAL	= 1,840 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,840 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.



PROPOSED LOCATION:  
WELLINGTON FEDERAL  
#22-4 SWD

T13S  
T14S

SEE TOPO "B"

**LEGEND:**

○ PROPOSED LOCATION

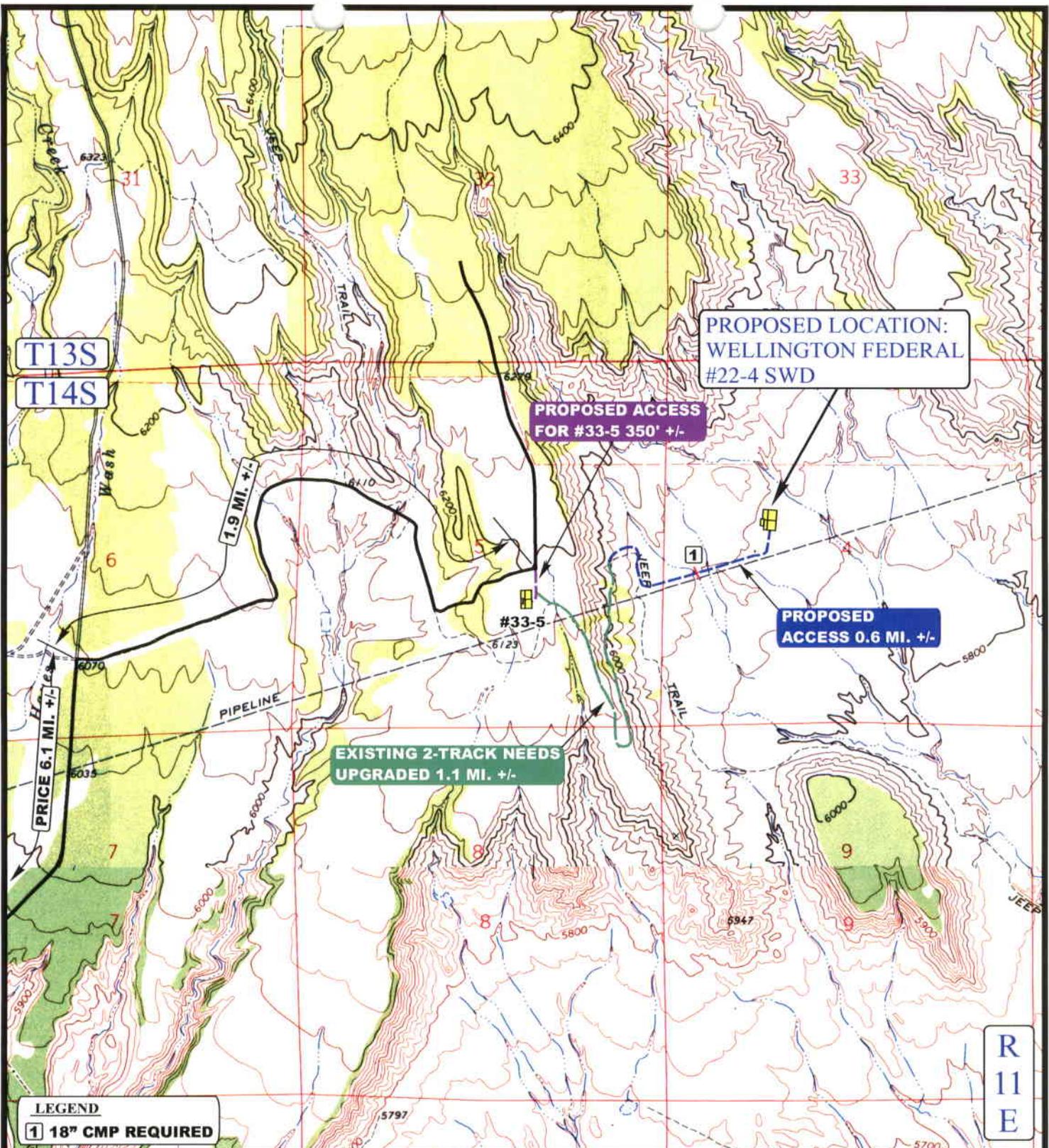


**WESTPORT OIL & GAS COMPANY, L.P.**

WELLINGTON FEDERAL #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B.&M.  
2350' FNL 1500' FWL

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

TOPOGRAPHIC MAP	5 MONTH	1305 DAY	YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: J.L.G.	REVISED: 00-00-00		



T13S  
T14S

PROPOSED LOCATION:  
WELLINGTON FEDERAL  
#22-4 SWD

PROPOSED ACCESS  
FOR #33-5 350' +/-

PROPOSED  
ACCESS 0.6 MI. +/-

EXISTING 2-TRACK NEEDS  
UPGRADED 1.1 MI. +/-

PRICE 6.1 MI. +/-

1.9 MI. +/-

R  
11  
E

LEGEND  
1 18" CMP REQUIRED

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING ROAD



WESTPORT OIL AND GAS COMPANY, L.P.

WELLINGTON FEDERAL #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B.&M.  
2350' FNL 1500' FWL



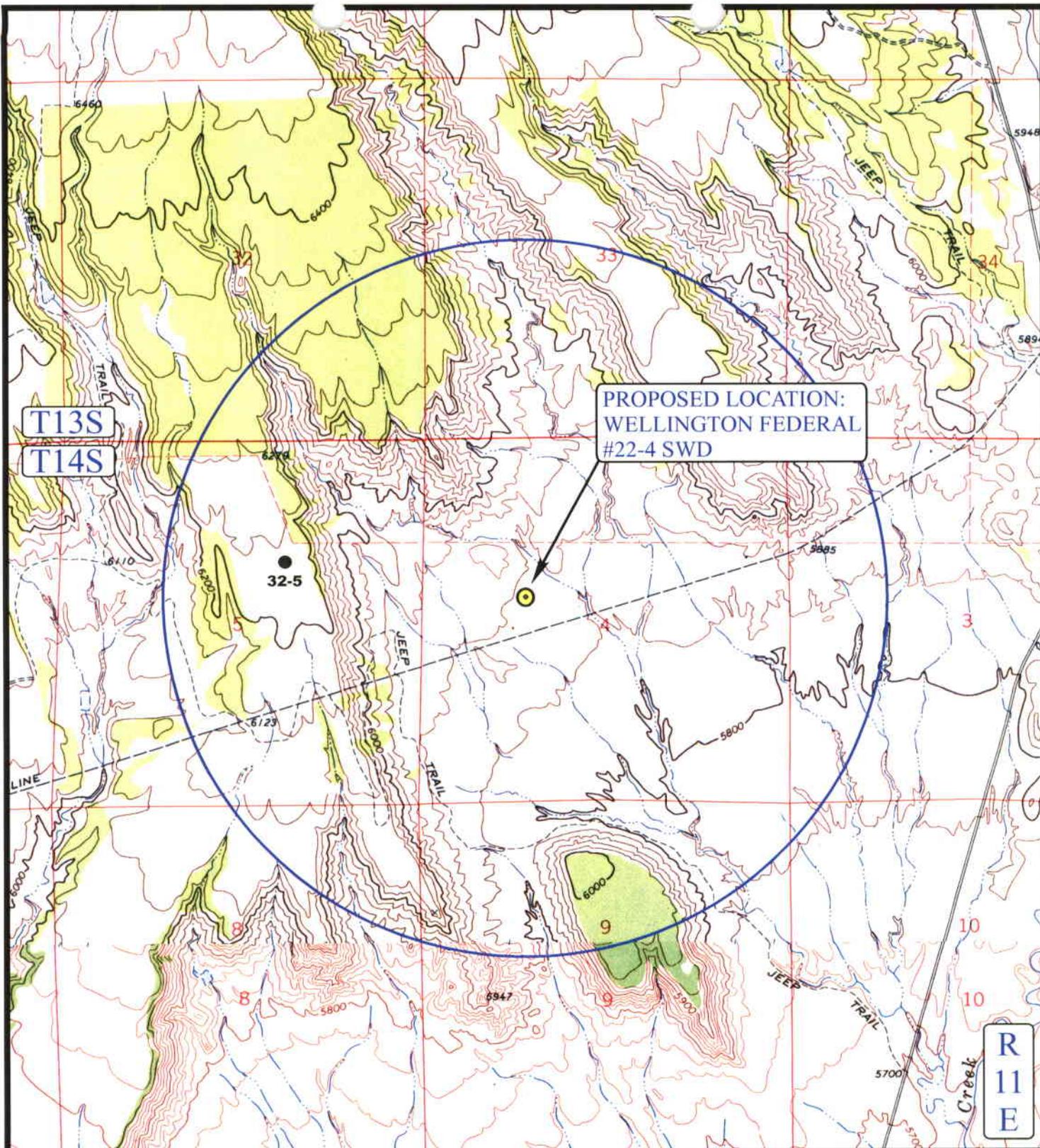
Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

5 13 04  
MONTH DAY YEAR



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



T13S  
T14S

PROPOSED LOCATION:  
WELLINGTON FEDERAL  
#22-4 SWD

32-5

R  
11  
E

**LEGEND:**

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

WESTPORT OIL AND GAS COMPANY, L.P.

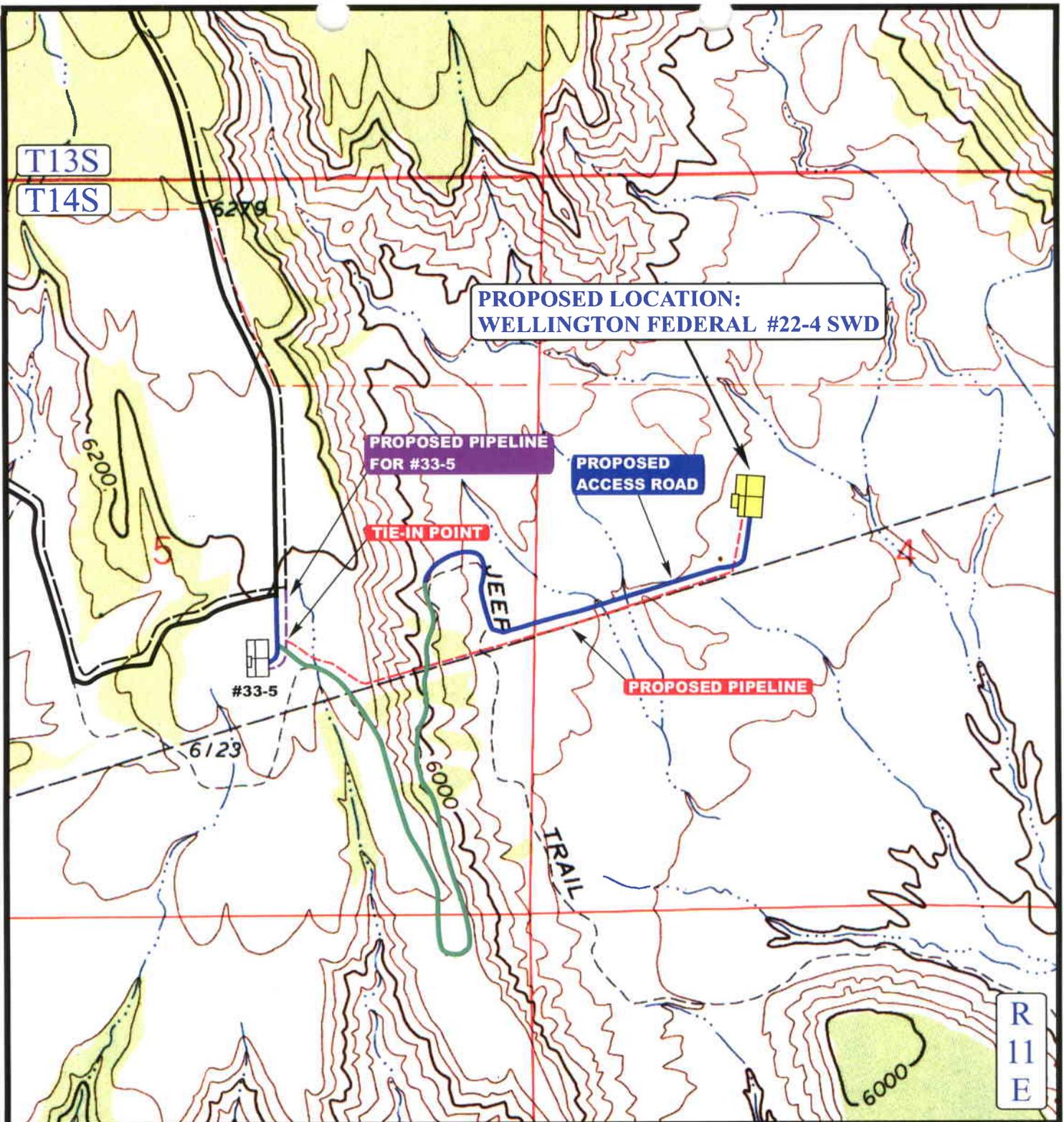
WELLINGTON FEDERAL #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B.&M.  
2350' FNL 1500' FWL



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

**TOPOGRAPHIC MAP**  
5 13 04  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 3,800' +/-**

**LEGEND:**

- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED ACCESS

**WESTPORT OIL AND GAS COMPANY, L.P.**

WELLINGTON FEDERAL #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B.&M.  
2350' FNL 1500' FWL



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

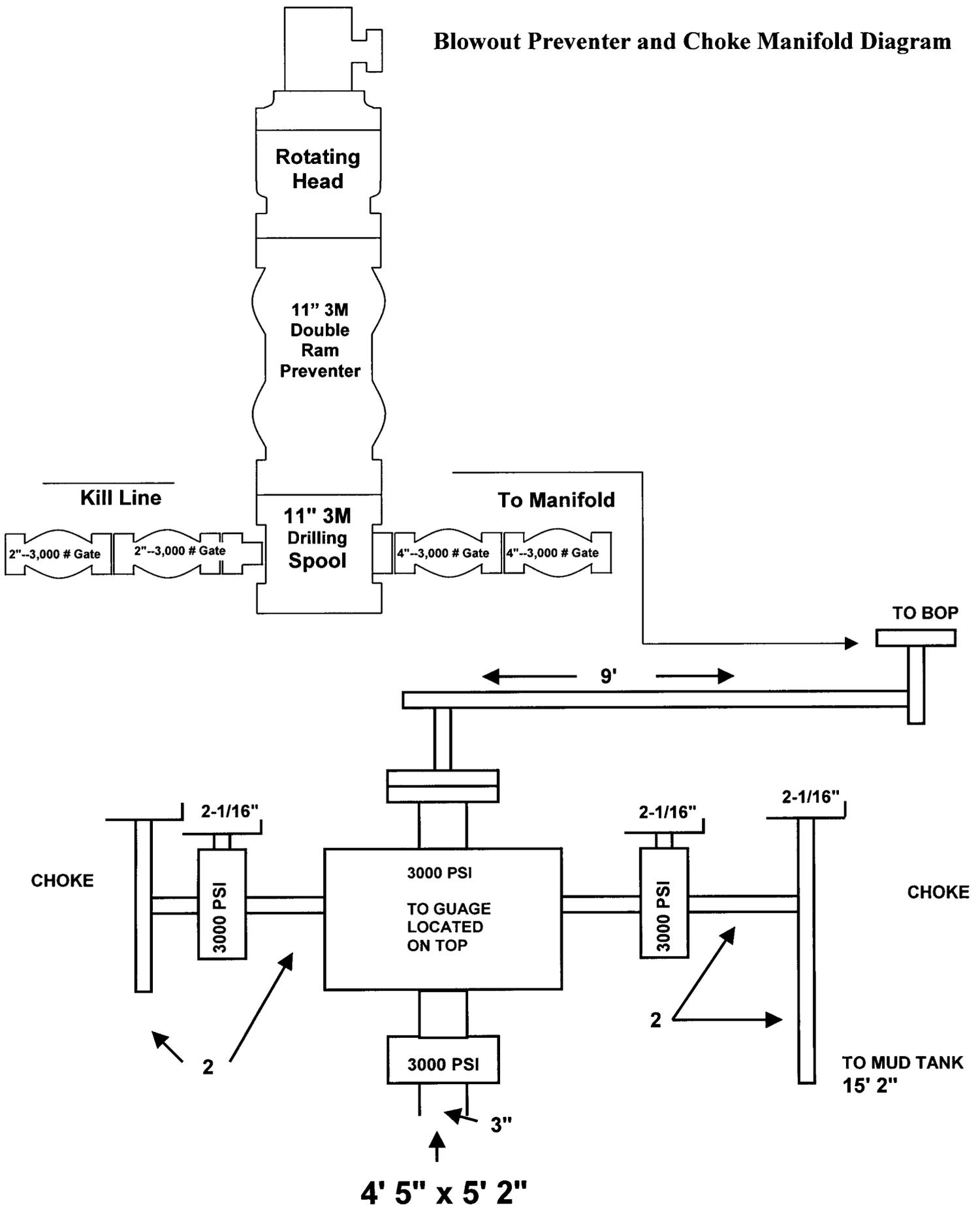
**TOPOGRAPHIC  
MAP**

**5 13 04**  
MONTH DAY YEAR



SCALE: 1" = 1000' | DRAWN BY: J.L.G. | REVISED: 00-00-00

# Blowout Preventer and Choke Manifold Diagram



WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/16/2004

API NO. ASSIGNED: 43-007-30967

WELL NAME: WELLINGTON FED 22-04 SWD  
OPERATOR: WESTPORT OIL & GAS CO ( N2115 )  
CONTACT: DAVID GOMENDI

PHONE NUMBER: 303-573-5404

PROPOSED LOCATION:

SENW 04 140S 110E  
SURFACE: 2350 FNL 1500 FWL  
BOTTOM: 2350 FNL 1500 FWL  
CARBON  
UNDESIGNATED ( 2 )

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

LEASE TYPE: 1 - Federal  
LEASE NUMBER: UTU-80560  
SURFACE OWNER: 1 - Federal  
PROPOSED FORMATION: WINGT  
COALBED METHANE WELL? NO

LATITUDE: 39.63900  
LONGITUDE: 110.69610

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. CO1230 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- RDCC Review (Y/N)  
(Date: )
- Fee Surf Agreement (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: 241-05  
Eff Date: 4-16-2004  
Siting: 410' Fr Outer boundary & 920' Fr other wells.
- R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: 1- Federal Approval





State of Utah

Department of  
Natural Resources

ROBERT L. MORGAN  
*Executive Director*

Division of  
Oil, Gas & Mining

LOWELL P. BRAXTON  
*Division Director*

OLENE S. WALKER  
*Governor*

GAYLE F. McKEACHNIE  
*Lieutenant Governor*

June 17, 2004

Westport Oil & Gas Company, L. P.  
1670 Broadway, Suite 2800  
Denver, CO 80202-4800

Re: Wellington Federal 22-04 SWD Well, 1500' FWL, 2350' FNL, SE NW, Sec. 4,  
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.

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 43-007-30967.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Baza".

John R. Baza  
Associate Director

jc  
Enclosures

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

**Operator:** Westport Oil & Gas Company, L. P.  
**Well Name & Number** Wellington Federal 22-04 SWD  
**API Number:** 43-007-30967  
**Lease:** UTU-80560

**Location:** SE NW                      **Sec.** 4              **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 Dan Jarvis at (801) 538-5338

**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.**

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>			5. LEASE DESIGNATION AND SERIAL NUMBER: <b>FEDERAL UTU-80560</b>
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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.			7. UNIT or CA AGREEMENT NAME:
			8. WELL NAME and NUMBER: <b>Wellington Federal 22-04 SWD</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>SWDW</u>	2. NAME OF OPERATOR: <b>WESTPORT OIL AND GAS COMPANY, L. P.</b>		9. API NUMBER: <b>43-007-30967</b>
3. ADDRESS OF OPERATOR: <b>1670 Broadway - Suite 2800 Denver, CO 80202-4800</b>	PHONE NUMBER <b>(303) 573-5404</b>	10. FIELD AND POOL, OR WILDCAT: <b>Undesignated</b>	
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1500' FWL, 2350' FNL, Lat 39.63900 Long: 110.69610</b>		COUNTY: <b>Carbon</b>	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDAN: <b>SEnw Sec. 4, T14S-R11E S.L.B.&amp;M.</b>		STATE: <b>UTAH</b>	

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>Upon Approval</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>Request extension of</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>Permit To Drill</u>

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

Westport Oil and Gas Company, L. P. respectfully requests an extension of the permit to drill the Wellington Federal 22-04 SWD, with its API No. 43-007-30967 approved by the State of Utah, June 17, 2004, for one (1) year. All information submitted with and on the original APD remains the same.

For the past year, Westport has been in the process of attempting to obtain an approval from the Bureau of Land Management (Moab and Price) to drill the salt water disposal well. To date, Westport continues to pursue an approval from the BLM in order to drill the well in 2005 before winter "wildlife" stipulations prevent us from drilling the well until next year, 2006.

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

Date: 06-27-05  
By: [Signature]

COPIES SENT TO OPERATOR  
Date: 6-23-05  
Initials: CHD

WOGCLP Bond No. 001230

NAME (PLEASE PRINT) Debby J. Black TITLE Staff Engineering Analyst  
SIGNATURE [Signature] DATE June 1, 2005

(This space for State use only)

**RECEIVED**  
**JUN 03 2005**

DIV. OF OIL, GAS & MINING

RESET

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-007-30967  
**Well Name:** Wellington Federal 22-04 SWD  
**Location:** SENW, Sec. 4, T14S-R11E, Carbon County, UT  
**Company Permit Issued to:** Westport Oil and Gas Company, L. P.  
**Date Original Permit Issued:** 6/17/2004

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

*Dorothy J. Black*  
Signature

6/1/2005  
Date

**Title:** Staff Engineering Analyst

**Representing:** Westport Oil and Gas Company, L. P.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL OR REENTER**

RECEIVED FORM APPROVED  
MOAB FIELD OFFICE OMB NO. 1004-0136  
Expires: November 30, 2000

**COPY**

2004 JUN 15 P 12:40  
Lease Serial No. UTU-80560

DEPT OF THE INTERIOR  
BUREAU OF LAND MGMT

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. <b>Wellington Federal 22-04 SWD</b>	
2. Name of Operator <b>Westport Oil and Gas Company, L. P.</b>		9. API Well No. <b>43-007-30967</b>	
3a. Address <b>1670 Broadway - Suite 2800 - Denver, CO 80202-4800</b>	3b. Phone No. (include area code) <b>303-573-5404</b>	10. Field and Pool, or Exploratory <b>Helper Field - Navajo</b>	
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface <b>SENW 1500' FWL, 2350' FNL Lat: 39.638939 Long: 110.696894</b> At proposed prod. zone <b>Same</b>		11. Sec., T., R., M., or Blk. And Survey or Area <b>Section 4: T 14 S - R 11 E, S.L.B.&amp;M.</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>Approximately 11 miles NE from Price, UT</b>		12. County or Parish <b>Carbon</b>	13. State <b>UT</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg unit line, if any) <b>2350'</b>	16. No. of Acres in lease <b>2007 acres</b>	17. Spacing Unit dedicated to this well <b>160 acres</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>~3559'</b>	19. Proposed Depth <b>5930'</b>	20. BLM/ BIA Bond No. on file <b>BLM Bond No. CO1230</b>	
21. Elevations (Show whether DF, RT, GR, etc.) <b>5877'</b>	22. Approximate date work will start* <b>Upon APD Approval</b>	23. Estimated Duration <b>8 days drilling plus 9 days completion</b>	

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

1. Well plat certified by a registered surveyor.	4. Bond to cover the operations unless covered by existing bond on file(see item 20 above).
2. A Drilling Plan.	5. Operator certification.
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).	6. Such other site specific information and/ or plans as may be required by the an authorized officer.

25. Signature 	Name (Printed/ Typed) <b>David A. Gomendi</b>	Date <b>June 8, 2004</b>
Title <b>Senior Operations Engineer</b>		

Approved By (Signature) 	Name (Printed/ Typed) <b>Assistant Field Manager,</b>	Date <b>6/9/05</b>
Title <b>Division of Resources,</b>		Office <b>Moab Field Office</b>

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

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

\* (Instructions on reverse)

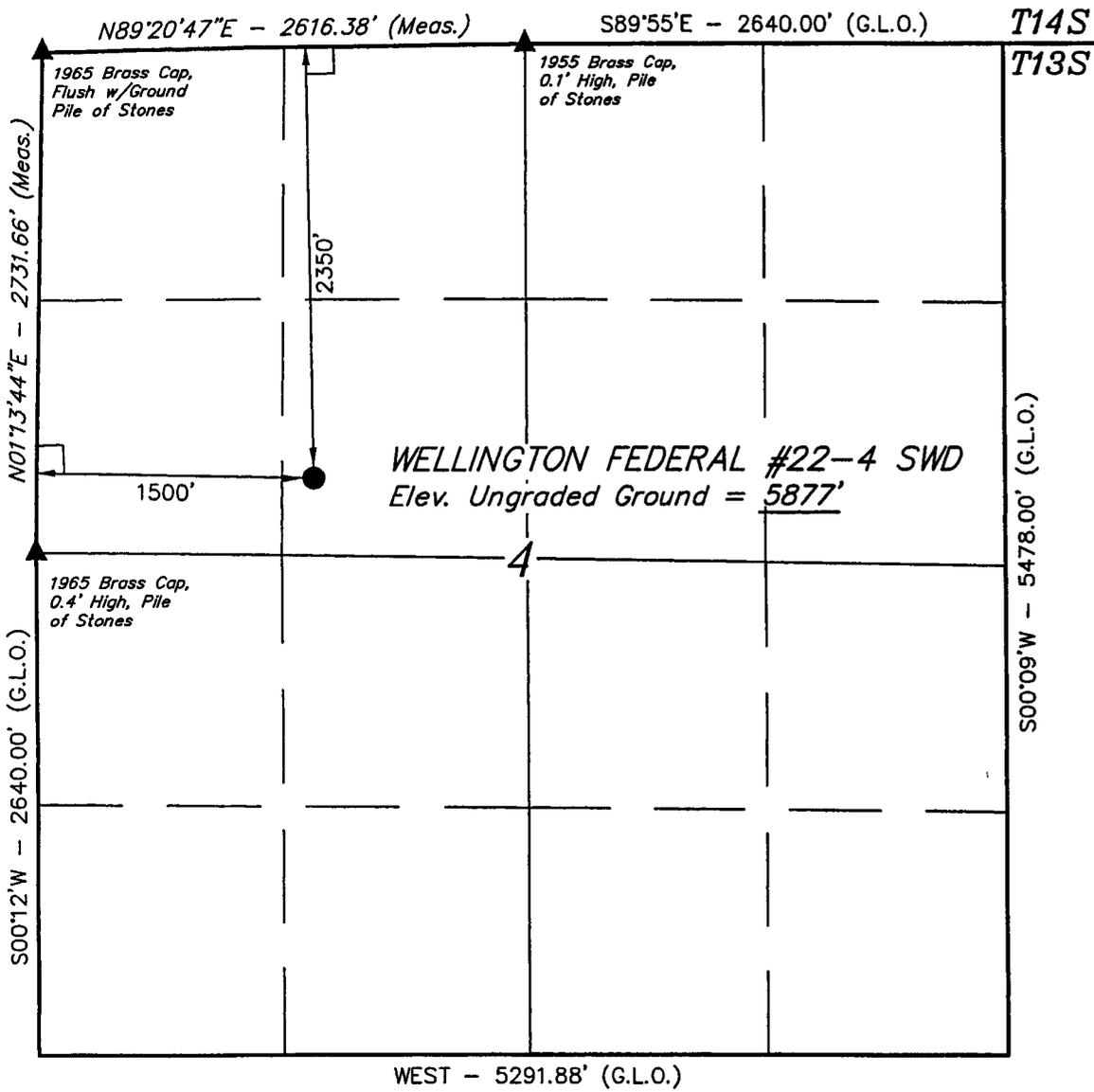
**CONDITIONS OF APPROVAL ATTACHED**

RECEIVED  
JUN 16 2005  
DIV. OF OIL, GAS & MINING

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

WESTPORT OIL AND GAS COMPANY, L.P.

Well location, WELLINGTON FEDERAL #22-4 SWD, located as shown in the SE 1/4 NW 1/4 of Section 4, T14S, R11E, S.L.B.&M. Carbon County, Utah.

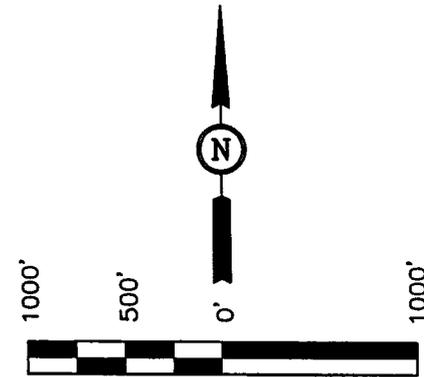


BASIS OF ELEVATION

SPOT ELEVATION LOCATED ON A JEEP TRAIL IN THE NW 1/4 OF SECTION 32, T13S, 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 6460 FEET.

BASIS OF BEARINGS

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



SCALE

CERTIFICATE

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

*Robert A. Key*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

LEGEND:

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

(AUTONOMOUS NAD 83)

LATITUDE = 39°38'20.18" (39.638939)  
LONGITUDE = 110°41'48.82" (110.696894)

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 5-11-04	DATE DRAWN: 5-12-04
PARTY D.K. L.M. C.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE	WESTPORT OIL AND GAS COMPANY, L.P.

Westport Oil and Gas Company, L.P.  
**Wellington Federal 22-04 SWD**  
Lease U-80560  
SE/NW Section 4, T14S, R11E  
Carbon County, Utah

**A COMPLETE COPY OF THIS PERMIT SHALL BE KEPT ON LOCATION from the beginning of site construction through well completion, and shall be available to contractors to ensure compliance.**

CONDITIONS OF APPROVAL

Approval of this application 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.

Be advised that Westport Oil & Gas Company, L.P. is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by CO1203 (Principal – Westport Oil and Gas Company, L.P.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors.

## A. DRILLING PROGRAM

1. The proposed Blow-Out Prevention Equipment (BOPE) is adequate for anticipated conditions. The BOPE system is composed of 3M components in a 2M configuration (no annular preventer--verbal amendment to the APD by Reed Scott 4/25/05). Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas Order No. 2.
2. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining (DOG M) is required before conducting any surface disturbing activities.
3. The well is proposed to be drilled with air. When drilling with air, the requirements of Onshore Oil and Gas Order No. 2, part III, E, Special Drilling Operations, shall apply. Among the requirements in this section are:
  - Spark arresters
  - Blooie line discharge 100 feet from wellbore
  - Straight blooie line
  - Deduster equipment
  - Float valve above bit
  - Automatic igniter on the blooie line
4. A cement bond log (CBL), or other appropriate tool for determining top-of-cement, shall be run on any casing string that does not circulate cement to surface. The log or report shall be submitted to BLM.
5. Upon completion, this well will be operated as a water disposal well in accordance with the provisions of the Underground Injection Control (UIC) permit and BLM regulations.

**SURFACE USE**

1. The following seed tables in the Standard Operating Practices shall be followed as conditions of approval:

**Table A-1, Seed Mixture for Green Strip Areas**

**Table A-2, Seed Mixture for Final Reclamation, Pinyon-Juniper Areas**

2. The following wildlife stipulations in the Standard Operating Practices shall be followed as conditions of approval:

**EMP 16 & 17, Winter Seasonal Restriction on Crucial & High Priority Winter Range**

**EMP 19, Critical Winter Range Browse Hand Planting**

3. Whether the pit will be lined shall be determined at the time of construction.
4. Within six months of installation, surface structures shall be painted in the following flat, earth tone color: Olive Black (5WA20-6). This Fuller O'Brien color is for reference only. Any brand of paint may be used provided the colors match. Any facilities that must be painted to comply with OSHA standards are exempt.
5. Mule Deer on critical or high priority winter ranges shall be protected by seasonal restrictions on construction from December 1 through April 15 where federal permits are required.
6. Prior to any construction activities between February 1 and July 1 within 0.5 mile of golden eagle nest site, the nest should be checked to determine its activity status. If nest is occupied, construction should not occur within 0.5 mile of the nest during nesting season (February 1 through August 1).
7. The company shall monitor Gas Well Spring on an annual basis unless it can be ascertained that the Ferron is not the source of the spring. If decrease in flow occurs, appropriate mitigation shall be undertaken. A field survey may indicate additional locations for monitoring.

**GENERAL CONSTRUCTION**

8. Operator shall contact the Price BLM Office at least forty-eight hours prior to the anticipated start of construction and/or any surface disturbing activities. The BLM may require and schedule a preconstruction conference with the operator prior to the operator commencing construction and/or surface disturbing activities. The operator and the

operator's contractor, or agents involved with construction and/or any surface disturbing activities associated with the project, shall attend this conference to review the Conditions of Approval and plan of development. The operator's inspector will be designated at the pre-drill conference, and is to be given an approved copy of all maps, permits and conditions of approval before the start of construction. The BLM will also designate a representative for the project at the preconstruction conference.

9. The operator shall designate a representative(s) who shall have the authority to act upon and to implement instructions from the BLM. The operator's representative shall be available for communication with the BLM within a reasonable time when construction or other surface disturbing activities are underway.
10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the operator, or any person working on his behalf, on public land is to be immediately reported to the Price BLM Office. The operator will suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Price BLM Office. An evaluation of the discovery will be made by the BLM to determine appropriate actions to prevent the loss of significant cultural or scientific values. The operator is responsible for the cost of evaluation of any site found during construction. The BLM will determine what mitigation is necessary.
11. During project construction, surface disturbance and vehicle travel shall be limited to the approved location and access routes. Any additional area needed must be approved by the Price BLM Office prior to use.
12. The operator must provide a trash cage for the collection and containment of all trash. The trash shall be disposed in an authorized landfill. The location and access roads shall be kept litter free.
13. Vegetation removal necessitated by construction shall be confined to the limits of actual construction. Removed vegetation will be stockpiled for use in reclamation or removed from the construction site at the direction of the BLM.
14. Prior to surface disturbance, topsoil is to be separately removed and segregated from other material. Topsoil depth will be decided onsite by BLM. If the topsoil is less than 6 inches, a 6-inch layer that includes the A horizon and the unconsolidated material immediately below the A horizon shall be removed and the mixture segregated and redistributed as the surface soil layer.

Generally topsoil shall be stored within the pad site or adjacent to access roads. The company in consultation with BLM shall determine stockpile locations and dimensions at the onsite. If the topsoil stockpiles will not be redistributed for a period in excess of one (1) year, the stockpiles are to be seeded with seed mixture as described on Table A-1 (attached).

## **ROAD and PIPELINE CONSTRUCTION**

15. 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.
16. Road construction or routine maintenance activities are to be performed during periods when the soil can adequately support construction equipment. If such equipment creates ruts more than 6 inches deep, the soil is deemed too wet to adequately support construction equipment.
17. The operator is responsible for maintenance of all roads authorized through the lease or a right-of-way. Construction and maintenance shall comply with Class II or III Road Standards as described in BLM Manual Section 9113 and the Moab District Road Standards, except as modified by BLM. Maintenance may include but is not limited to grading, applying gravel, snow removal, ditch cleaning, headcut restoration/prevention.
18. Topsoil from access roads and pipelines is 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.
19. 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 dissipators 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 dissipators 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.
20. In the event construction can't be completed prior to winter closures, measures to prevent erosion from upcoming spring snowmelt should be taken as follows:
  - a. Loose earth and debris must be removed from drainages, and flood plains. Earth and debris should not be stockpiled on drainage banks.
  - b. Road drainages should be checked to ensure there are none with uncontrolled outlets.
  - c. Be sure all ditch drainages have an outlet to prevent ponding. If necessary, build temporary sediment ponds to capture runoff from unreclaimed areas. Re-route ditches as needed to avoid channeling water through loosened soil.

## **PAD CONSTRUCTION**

21. During the construction of the drill pad, suitable topsoil material is to be stripped and conserved in a stockpile on the pad. If stockpiles are to remain for more than a year, they shall be seeded with the seed mixture in Table A-1, attached.
22. Generally, drill pads are to be designed to prevent overland flow of water from entering or leaving the site. The pad is to be sloped to drain spills and water into the reserve pit. The drill pad shall be designed to disperse diverted overland flow and to regulate flow velocity so as to prevent or minimize erosion. Well pad diversion outlets shall be equipped with rock energy brakes and gravel-bedded dispersion fans.

## **REHABILITATION PROCEDURES**

### **Site Preparation**

23. The entire roadbed should be obliterated and brought back to the approximate original contour. Drainage control is to be reestablished as necessary. All areas affected by road construction are to be recontoured to blend in with the existing topography. All berms are to be removed unless determined to be beneficial by BLM. In recontouring the disturbed areas, care should be taken to not disturb additional vegetation.

### **Seedbed Preparation**

24. An adequate seedbed should be prepared for all sites to be seeded. Areas to be revegetated should be chiseled or disked to a depth of at least 12 inches unless restrained by bedrock.
25. Ripping of fill materials should be completed by a bulldozer equipped with single or a twin set of ripper shanks. Ripping should be done on 4-foot centers to a depth of 12 inches. The process should be repeated until the compacted area is loose and friable, then shall be followed by final grading. Seedbed preparation will be considered complete when the soil surface is completely roughened and the number of rocks (if present) on the site is sufficient to cause the site to match the surrounding terrain.
26. After final grading, the stockpiled topsoil shall be spread evenly across the disturbed area.

### **Fertilization**

27. Commercial fertilizer with a formula of 16-16-8 is to be applied at a rate of 200 pounds per acre to the site. The rate may be adjusted depending on soil.
28. Fertilizer is to be applied not more than 48 hours before seeding, and shall be cultivated into the upper 3 inches of soil.

29. Fertilizer is to be broadcast over the soil using hand-operated "cyclone-type" seeders or rotary broadcast equipment attached to construction or revegetation machinery as appropriate to slope. All equipment should be equipped with a metering device. Fertilizer application is to take place before the final seeding preparation treatment. Fertilizer broadcasting operations should not be conducted when wind velocities would interfere with even distribution of the material.

### Mulching

30. When it is time to reclaim this location, the Price BLM Office will determine whether it will be necessary to use mulch in the reclamation process. The type of mulch should meet the following requirements: Wood cellulose fiber shall be natural or cooked, shall disperse readily in water, and shall be nontoxic. Mulch shall be thermally produced and air dried. The homogeneous slurry or mixture shall be capable of application with power spray equipment. A colored dye that is noninjurious to plant growth may be used when specified. Wood cellulose fiber is to be packaged in new, labeled containers. A minimum application of 1500 pounds per acre shall be applied. A suitable tackifier shall be applied with the mulch at a rate of 60 to 80 pounds per acre.

An alternative method of mulching on small sites would be the application of straw or hay mulch at a rate of 2000 pounds per acre. Hay or straw shall be certified weed free. Following the application of straw or hay, crimping shall occur to ensure retention.

### Reseeding

31. All disturbed areas are to be seeded with the seed mixture required by the BLM. The seed mixture(s) shall be planted in the fall of the year (Sept-Nov), in the amounts specified in pounds of pure live seed (PLS)/acre. There shall be no noxious weed seed in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within 12 months prior to planting. Commercial seed will be either certified or registered seed. The seed mixture container shall be tagged in accordance with State law(s) and available for inspection by the BLM. Seed is to be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area. (Smaller/heavier seeds tend to drop to the bottom of the drill and are planted first. Appropriate measures should be taken to ensure this does not occur.) Where drilling is not possible, seed is to be broadcast and the area raked or chained to cover the seed. Woody species with seeds that are too large for the drill will be broadcast. When broadcasting the seed, the pounds per acre noted below are to be increased by 50 percent. Reseeding may be required if a satisfactory stand is not established to the surface rights owner's specifications. Evaluation of the seeding's success will not be made before completion of the second growing season after the vegetation becomes established. The Price BLM Office is to be notified a minimum of seven days before seeding a project.

32. The disturbed areas for the road and pipeline must be seeded in the fall of the year, immediately after the topsoil is replaced. The prescribed seed mixture is attached as Table A-2.

General

33. Prior to the use of insecticides, herbicides, fungicides, rodenticides and other similar substances, the operator must obtain from BLM, approval of a written plan. The plan must describe the type and quantity of material to be used, the pest to be controlled, the method of application, the location for storage and disposal of containers, and other information that BLM may require. A pesticide may be used only in accordance with its registered uses and within other agency limitations. Pesticides must not be permanently stored on public lands.

The following seed mixture would be planted along service road borrow ditches, around the edges of drill pads with a production well, and surrounding other production and maintenance facilities. The purpose for this is to provide a "green strip" buffer to minimize fire hazards and prevent invasion and establishment of noxious weeds in areas that will receive continued disturbance for the life of these areas.

Table A-1

Common Plant Name	Scientific Name	Pounds per acre (PLS)
Forage kochia	<i>Kochia prostrata</i>	2
Wyoming big sagebrush	<i>Artemisia tridentata wyomingensis</i> var. Gordon Creek	1
Douglas low rabbitbrush	<i>Chrysothamnus viscidiflorus</i>	1
TOTAL		4

The following seed mixture is for the area that would receive final reclamation. Areas would be planted to protect them from soil erosion and to restore forage production.

Table A-2

Common Plant Name	Scientific Name	Pounds per acre (PLS) <sup>1</sup>
<b>Pinyon Juniper Areas</b>		
<i>Grasses</i>		
Thickspike wheatgrass	<i>Elymus lanceolatus</i>	1.5
Intermediate wheatgrass	<i>Elytrigia intermedia</i>	1.5
Squirreltail	<i>Elymus elymoides</i>	2
Crested wheatgrass	<i>Agropyron desertorum</i>	2
<i>Forbs</i>		
Lewis flax	<i>Linum perenne lewisii</i>	1
Palmer penstemon	<i>Penstemon palmerii</i>	1
<i>Shrubs</i>		
Forage kochia	<i>Kochia prostrata</i>	2
Fourwing saltbrush	<i>Atriplex canescense</i>	2
Wyoming big sagebrush	<i>Artemesia tridentata wyomingensis</i> var. Gordon Creek	1
Antelope bitterbrush	<i>Purshia tridentata</i>	1
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.

Formula: pure live seed (PLS) = % seed purity x % seed germination

**EMP 19: Browse Hand Planting  
Tubling Mixtures**

One of the two browse species lists (checked below) are to be hand planted at the prescribed application rate and according to the following prescribed methods on areas that are undergoing long term reclamation. The would include all pipeline corridors, berm around edge of drill pads, miscellaneous disturbed areas associated with construction such as staging areas for equipment, sidecast on road cuts, along side upgraded or new roads up to and including borrow ditch and in the termination of redundant access roads being closed. This planting shall be completed in the first planting window following completion of construction and on all other disturbed areas upon final reclamation.

**Planting Methods:**

Planting shall be accomplished using a labor force with specific experience in landscape restoration, hand planting methods and handling and care of browse tubling and or bareroot stock plants.

Browse plants to be utilized can be bareroot stock or tubling stock plants of 1 year old age class or greater.

Browse seedling protectors will be used to provide protection from browsing ungulates for two years. Seedling protectors will be of an open mesh rigid design that will break down when exposed to sunlight and that measures a minimum of 12 inches in length and 4 inches in diameter.

Planting shall be completed in the spring (March 1-April 1) and or fall (November 1-December 1) planting windows.

Browse plants shall be stored and handled in such a manner as to maintain viability, according to the type of browse stock being used.

**Planting Species and Application Rate:**

	[ ] Sagebrush-Grass	[ ] Pinyon-
Juniper	<u>Plants Per Acre</u>	
Species		
Wyoming Sagebrush (Gordon Creek)	100	50
Fourwing Saltbush (Utah seed source collected at or above 5,000 feet elevation)	100	50
True Mountain Mahogany (Utah seed source)	0	50
Antelope Bitterbrush (Utah seed source)	0	50
<b>Total</b>	<b>200</b>	<b>200</b>

**Suitable Substitutions:**

Utah Serviceberry	no	50
Winterfat	100	no

## **EMP 16&17: Winter Seasonal Restriction (December 1 to April 15) on Crucial and High Priority Winter Range**

Restrictions on Construction Phase Activity: Prohibit construction phase activity, described below, on big game high value and critical winter range during the period (December 1-April 15) without regard for land ownership.

This condition would not apply to normal maintenance and operation of producing wells, described below. On nonfederal lands (where the federal government does not have either surface or subsurface ownership) the Companies would be allowed to conduct construction phase activity if needed to avoid breach of contract or loss of lease rights. In the event construction phase activity proceeds into the winter closure period on non federal interest lands, Companies would make available appropriate documentation to UDWR, upon request.

Construction Phase Activity: Construction phase activity is considered to include all work associated with initial drilling and construction of facilities through completion, including installation of pumping equipment, connection with ancillary facilities and tie-in with pipelines necessary for product delivery.

Companies would not be allowed to initiate construction activity unless it is reasonable to believe that such work can be finished to a logical stopping point prior to December 1 of that year. Specific activities considered to be covered by the seasonal closure include all heavy equipment operation including but not limited to the following:

- Mobilization/Demobilization or operation of heavy equipment (Crawler tractor, front end loader, backhoe, road grader, etc.)
- Construction activity (road construction or upgrading, pad, pipeline, powerline, ancillary facilities, etc.)
- Drilling activity (Operator would not propose or initiate drilling activity if the project could not reasonably be expected to be finished to a logical stopping point by the December 1 date of that year.)
- Seismic operation, detonation of explosives

This seasonal closure would not apply to reconnaissance, survey/design and/or flagging of project work or other similar activity not requiring actions listed for heavy equipment operation.

Production Phase: A well is considered to be in production phase when the well and ancillary facilities are completed to the point that they are capable of producing and delivering product for sale. It is noted that heavy equipment operation may be necessary in performance of maintenance and operation of producing wells.

Restriction on Non Emergency Workover Operations: The companies will schedule non-emergency workover operations (defined below) on big game crucial and high value winter range outside December 1 to April 15 date of the seasonal closure.

Non-emergency Workover Operations: Workover operations to correct or reverse a gradual loss of production over time (loss of production of 20 percent or less over a 60 day period) is considered to be routine or non-emergency workover operations and would not be permitted during the December 1 to April 15 time frame.

Emergency Workover Operations: Emergency work over operations is defined as downhole equipment failure problems or workover operation necessary to avoid shut in of the well or to avoid an immediate safety or environmental problem. Loss of production greater than 20 percent within a 60 day period is indicative of pump failure and will be treated as an emergency workover operation. The companies will submit Sundry Notices to BLM within five of the emergency workover operations between December 1 and April 15.

### C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Notify the Price Field Office at least 48-hours prior to commencing construction of location.

Spud- Notify the Price Field Office 24-hours prior to spudding. Submit written notification of spud (Sundry Notice, Form 3160-5) to the Moab Field Office within 24-hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports that describe the progress and status of the well shall be submitted to the Moab Field Office on a weekly basis. This report may be in any format customarily used by the operator.

Oil and Gas Operations Reports (OGORs)- Production from this well shall be reported to Minerals Management Service (MMS) on a monthly basis.

Sundry Notices- Any modification to the proposed drilling program shall be submitted to the Moab Field Office on a Sundry Notice (Form 3160-5). Regulations at 43 CFR 3162.3-2 describe which operations require prior approval, and which require notification.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, immediately notify the Price Field Office, and work that might disturb the cultural resources shall cease.

First Production- A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Price Field Office.

Notify the Moab Field Office when the well is placed into production. Initial notification may be verbal, but must be confirmed in writing within five business days. Please include the date production started, the producing formation and production volumes.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, a *Well Completion or Recompletion Report and Log* (Form 3160-4) shall be submitted to the Moab Field Office within thirty-days after completion of the well. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered to be shut-in until the gas can be captured or until approval to continue the venting/flaring pursuant to NTL-4A is granted. Compensation shall be due for gas that is vented/flared without approval.

Produced Water- An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order No.7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling of production prior to the sales measurement point. The term "commingling" describes both the combining of production from different geologic zones and/or combining production from different leases or agreement areas.

Plugging and Abandonment- If the well is a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Sundry Notice, Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Price Field Office or the appropriate surface managing agency.

TABLE 1

NOTIFICATIONS

Notify Don Stephens (435-636-3608) or Mary Maddux (435-636-3668) of the BLM Price Field Office for the following:

1 day prior to spudding;

50 feet prior to reaching each casing setting depth;

If the person at the above number cannot be reached, notify the BLM Moab Field Office at 435-259-2100.

Well abandonment operations require 24-hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained from:

Eric Jones, Petroleum Engineer

Office: 435-259-2117

Home: 435-259-2214

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: WESTPORT OIL & GAS COMPANY LP

Well Name: WELLINGTON FED 22-04 SWD

Api No: 43-007-30967 Lease Type: FEDERAL

Section 04 Township 14S Range 11E County CARBON

Drilling Contractor PETE MARTIN'S RIG # RATHOLE

### **SPUDDED:**

Date 07/06/05

Time 6:00 PM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by BILL MCNAB

Telephone # 1-435-613-0752

Date 07/07/2005 Signed CHD

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

FORM 6

**ENTITY ACTION FORM**

Operator: Westport Oil and Gas Company, L. P.  
Address: 1670 Broadway, Ste 2800  
city Denver  
state CO zip 80202-4800

Operator Account Number: N 2115  
Phone Number: (303) 573-5404

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4300730967	Wellington Federal 22-04 SWD		SENW	4	14S	11E	Carbon
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	14826	7/7/2005		7-13-05		
Comments: WINGT							

K

**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)

Kristi A. Stover (303) 575-0152  
Name (Please Print)  
Kristi A. Stover  
Signature  
Sr. Engineering Technician      7/11/2005  
Title      Date



UIC-325.1

WESTPORT OIL AND GAS COMPANY, L.P.

1670 Broadway Suite 2800 Denver Colorado 80202

Telephone: 303 ~~573-5404~~ Fax: 303 573-5609

296-3600 296-3601

August 12, 2005

Mr. Chris Kierst  
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: UIC Permit Application  
Wellington Federal 22-04 SWDW  
SE/4,NW/4 Section 4 T14S-R11E  
Carbon County, Utah

Dear Chris:

Please find enclosed the UIC permit application for the Wellington Federal 22-04 SWDW.

If you have any questions or require additional information, please call me at ~~303-628-1593~~  
(office) or 303-916-6206 (cell). Thank you for your assistance in this matter.

Sincerely,

Reed Scott  
Senior Engineering Specialist

Enclosures

New Reed Scott #  
720-264-2790

*This UIC Form 1 package was submitted before the well was even finished!!! The well bore diagram contains several errors and inconsistencies. There is no recorded cement volume for the 7" pipe run in the daily reports (Rec'd from Kristi Stove, 12/12/05). The well bore is ~~partly~~ a fabrication! We rec'd. the UIC Form 1 package on 8/16/05 w/ completed well bore diagram. Original date time drill reports indicate TD at 2,665' and cementing 9 5/8 intermediate. Well bore diag. was made on 8/13/05. ~~OK 8/13/06~~*

RECEIVED

AUG 16 2005

DIV. OF OIL, GAS & MINING

**UIC Permit Application**  
**Wellington Federal 22-04**

RG49-5-2. Requirements For Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells.

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.

2. The application for an injection well shall include a properly completed UIC Form 1 and the following:

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.

Please see enclosed plat. There are no abandoned or active wells within a 1/2-mile radius of the proposed injection well. The surface for all lands within a 1/2-mile radius of the proposed well is owned by the United States of America.

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.

Copies of the logs will be provided when the well is drilled.

2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

This log will also be provided when the well is drilled.

2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.

There are no logs on file.

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.

Please see the enclosed wellbore diagram. The casing will be tested as specified in the enclosed drilling prognosis.

2.6. A statement as to the type of fluid to be used for injection. its source and estimated amounts to be injected daily.

The injected fluid will be water produced from the Ferron Formation. It is anticipated that the maximum injection rate will be 10,000 bpd.

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.

Please see the attached analyses:

- (1) water produced from the Ferron Formation.
- (2) water from the Navajo and Wingate Formations from the Wellington Federal 44-06 SWDW located approximately 1.6 miles away.
- (3) compatibility of the injected and connate waters from the Wellington Federal 44-06 SWDW located approximately 1.6 miles away.

2.8. The proposed average and maximum injection pressures.

The proposed average injection pressure is 900 psig and maximum injection pressure is 1000 psig.

OK  
Acceptable plat  
was received. OK

need logs

need CBL or  
better

need logs

see proposal for testing  
in prognosis  
prognosis says nothing  
OK about SRT

will need a sample  
from this well of  
connate water  
& compatibility

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.

*Need SRT*

A step rate test will be run when the well has been drilled and completed.

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.

*Acceptable  
X-section + Structure  
map on Navajo  
received D.C.*

The Wingate and Navajo sandstones are the target injection interval. In the Wellington Federal 44-06 SWDW, the sands are approximately 370' thick. The bounding beds are the Carmel formation above and the Chinle formation below. The 480' thick 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.

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.

*OK*

There are no wells within a 1/2-mile radius of the proposed injection well.

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.

*OK*

Please see the enclosed affidavit.

2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.

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

UIC FORM 1

**APPLICATION FOR INJECTION WELL**

Name of Operator Westport Oil and Gas Company, L.P.	Utah Account Number N 2115	Well Name and Number Wellington Federal 22-04 SWDW
Address of Operator 1670 Broadway #2800 CITY Denver STATE CO ZIP 80202	Phone Number (303) 573-5404	API Number 4300730967
Location of Well Footage : 1500' FWL, 2350' FNL County : Carbon QQ, Section, Township, Range: SENW 4 14S 11E State : UTAH		Field or Unit Name Undesignated Lease Designation and Number Federal UTU-80560

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 checked="" type="checkbox"/>
	Disposal?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Storage?	Yes <input type="checkbox"/>	No <input checked="" 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 5,280 to 5,740

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

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

List of attachments: Drilling prognosis wellbore diagram

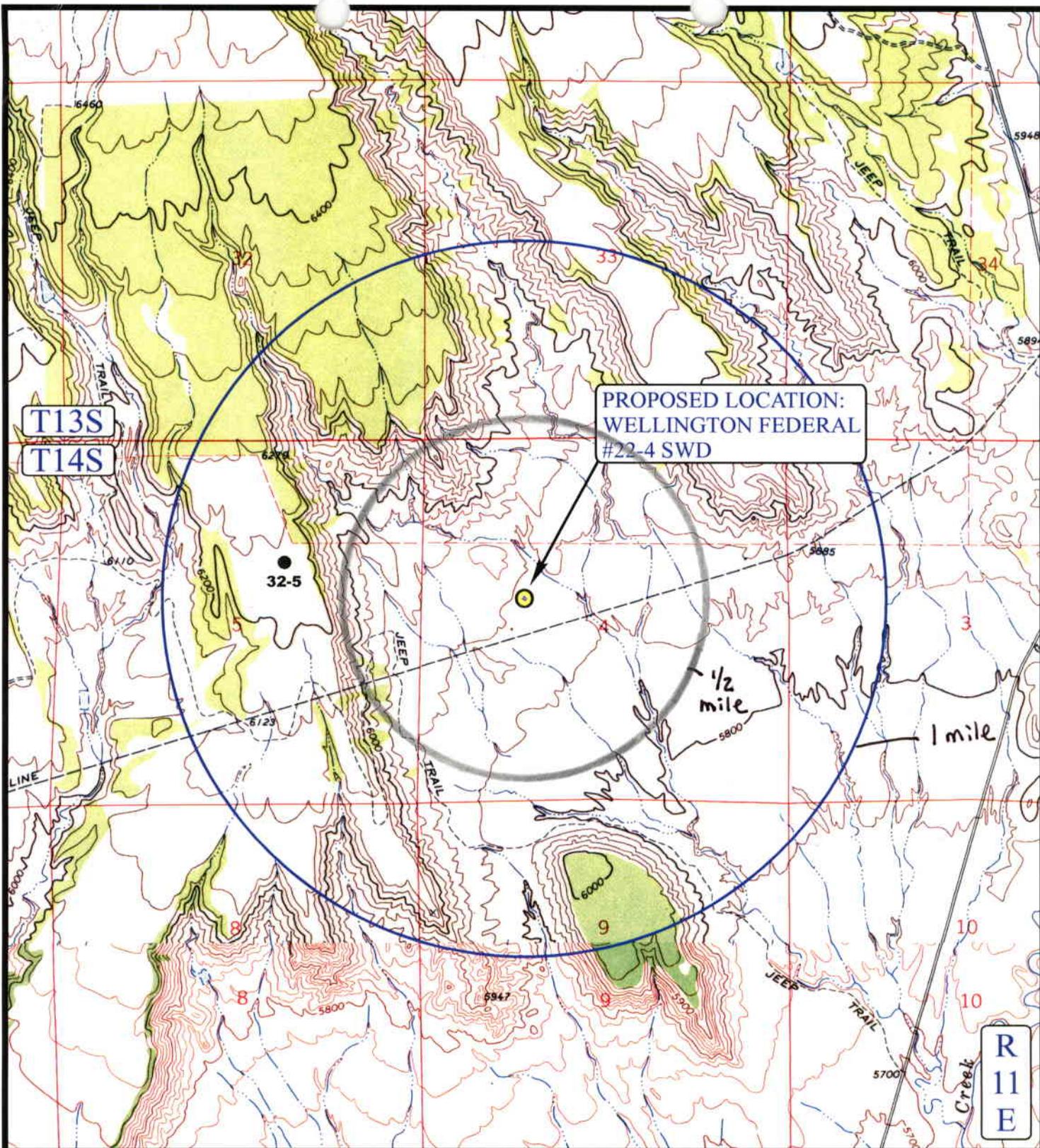
**ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT  
UTAH OIL AND GAS CONSERVATION GENERAL RULES**

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

Name (Please Print) T. Reed Scott  
Signature 

Title Senior Engineering Specialist  
Date 8/11/2005

**RECEIVED**  
**AUG 16 2005**



**LEGEND:**

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

WESTPORT OIL AND GAS COMPANY, L.P.  
 WELLINGTON FEDERAL #22-4 SWD  
 SECTION 4, T14S, R11E, S.L.B.&M.  
 2350' FNL 1500' FWL



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



**TOPOGRAPHIC  
 MAP**

**5 13 04**  
 MONTH DAY YEAR

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



## SURFACE, ROYALTY AND WORKING INTEREST

### **SURFACE OWNERSHIP:**

Township 14 South – Range 11 East, S.L.P.M.

All                                      Section 4:                                      USA

E/2, E/2                                      Section 5:                                      USA

Township 13 South – Range 11 East, S.L.P.M.

S/2, SW/4                                      Section 33:                                      USA

### **MINERAL OWNERSHIP:**

Township 14 South – Range 11 East, S.L.P.M.

All                                      Section 4:                                      USA

E/2, E/2                                      Section 5:                                      USA

Township 13 South – Range 11 East, S.L.P.M.

S/2, SW/4                                      Section 33:                                      USA

### **LEASEHOLD OWNERSHIP:**

Township 14 South – Range 11 East, S.L.P.M.

All                                      Section 4:                                      Westport Oil and Gas Company, L. P.  
Robert L. Bayless, Producer LLC

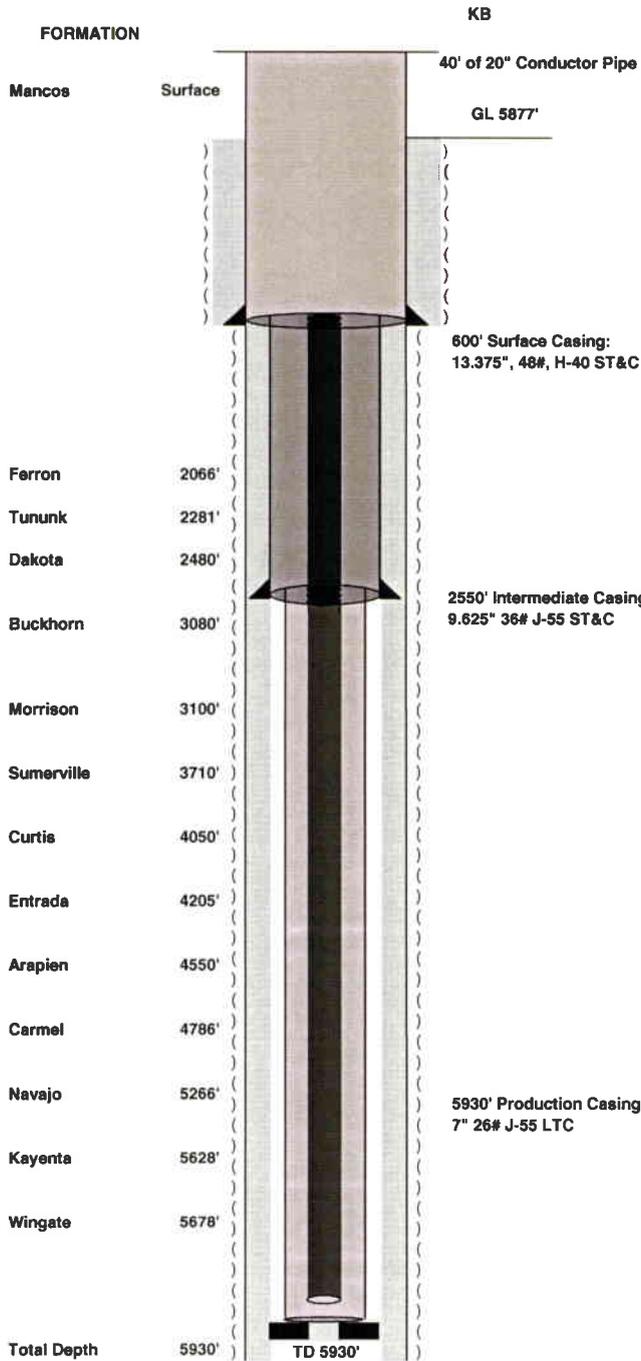
E/2, E/2                                      Section 5:                                      Westport Oil and Gas Company, L. P.  
Robert L. Bayless, Producer LLC

Township 13 South – Range 11 East, S.L.P.M.

S/2, SW/4                                      Section 33:                                      Westport Oil and Gas Company, L. P.  
Robert L. Bayless, Producer LLC

# WELLBORE DIAGRAM

**Operator:** WESTPORT OIL AND GAS COMPANY, L. P.  
**Well Name:** WELLINGTON FEDERAL 22-04 SWD  
**Lease Serial No.:** UTU-80560  
**Location:** Sec. 4: T 14 S - R 11 E SENW  
**Field:** Helper  
**County:** Carbon  
**API Number:** 43-007-30967  
 1500' FWL, 2350' FNL



20" Conductor Pipe  
Cement to surface

Cement to surface with the following:  
20 bbl spacer with gel water.  
600 sxs Class G with 2% CaCl, 0.25# per sack Flocele. Slurry yield of 1.15 cu ft / sack, 5.0 gal/sack mix water, 15.8 ppg.

Cement with the following:  
20 bbl spacer  
700 sxs Premium AG w/ 2% CaCl and 0.25# per sack Flocele  
Slurry yield of 2.84 cu ft / sack, 16.38 gal/sack mix water, 11 to 15.6 ppg.

Cement with the following:  
Lead: 370 sxs 50/50 Poz mix with 2% Bentonite Lite, 8% Cal Seal 60, 0.25#/ sack Flocele. Yield 1.84 cu ft / sack, 9.81 gal/sack mix water, 12.5 ppg  
Tail: 290 sxs 50/50 Poz mix with 2% Bentonite Lite, 5% Salt, 0.4% Halad-344, 0.25#/ sack Flocele. Yield 1.22 cu ft / sack, 5.31 gal/sack mix water, 14.3 ppg

**WESTPORT OIL AND GAS COMPANY, L.P.**  
**FERRON COAL PROJECT**  
**WELLINGTON FEDERAL 22-04 SWD**  
**SENW 1500' FWL, 2350' FNL**  
**Section 4: Township 14 South – Range 11 E, S.L.B.&M.**  
**Carbon County, Utah**

**DRILLING PROGNOSIS:**

1. Prepare location for drilling rig. Drill rat hole and mouse hole.
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 trip.
10. Run open hole logs as follows:

<b>Logging Tool</b>	<b>Top Interval Logged</b>	<b>Bottom Interval Logged</b>
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 @ 5930').
16. Run open hole logs as follows:

<b>Logging Tool</b>	<b>Top Interval Logged</b>	<b>Bottom Interval Logged</b>
Induction/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.

# Water Analysis Report

15-Mar-05

**Date Sampled :** 14-Jan-05  
**Date Received :** 17-Jan-05  
**Date Reported :** 28-Jan-05

Westport Oil & Gas

**Field :** Wellington  
**Lease :** Cardinal Draw

UT

**Location :** Cardinal Draw SWD

**Attention :**  
**cc1 :**

**Sample Point :** wellhead

**cc2 :**  
**cc3 :**

**Salesman :** Ed Schwarz

**Analyst :** Karen Hawkins Allen

**Comments :** Ferron Formation

## C A T I O N S

<b>Calcium :</b>	224	mg/l
<b>Magnesium :</b>	44	mg/l
<b>Barium :</b>		mg/l
<b>Strontium :</b>		mg/l
<b>Iron :</b>	2.0	mg/l
<b>Manganese :</b>		mg/l
<b>Sodium :</b>	8871	mg/l
<b>pH (field) :</b>	7.48	
<b>Temperature :</b>	85	degrees F
<b>Ionic Strength :</b>	0.40	
<b>Resistivity :</b>		ohm/meters
<b>Ammonia :</b>		ppm

## A N I O N S

<b>Chloride :</b>	11,780	mg/l
<b>Carbonate :</b>	0	mg/l
<b>Bicarbonate :</b>	3,721	mg/l
<b>Sulfate :</b>	355	mg/l      mg/l      mg/l
<b>Specific Gravity :</b>	1.015	grams/ml
<b>Total Dissolved Solids :</b>	24,997	ppm
<b>CO2 in Water :</b>	300	mg/l
<b>CO2 in Gas :</b>	0.03	mole %
<b>H2S in Water :</b>		mg/l
<b>Dissolved Oxygen :</b>		ppm

### SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	0.30	Calcite PTB :	88.8
Calcite (CaCO3) SI @ 100 F :	0.45	Calcite PTB @ 100 F :	117.8
Calcite (CaCO3) SI @ 120 F :	0.66	Calcite PTB @ 120 F :	146.9
Calcite (CaCO3) SI @ 140 F :	0.88	Calcite PTB @ 140 F :	165.3
Calcite (CaCO3) SI @ 160 F :	1.10	Calcite PTB @ 160 F :	177.5
Calcite (CaCO3) SI @ 180 F :	1.34	Calcite PTB @ 180 F :	185.2
Calcite (CaCO3) SI @ 200 F :	1.57	Calcite PTB @ 200 F :	189.6
Gypsum (CaSO4) SI :	-1.76	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

**Customer :** Westport Oil & Gas

**Date Sampled :** 14-Nov-03

**Date Reported :** 17-Nov-03

**Date Received :** 17-Nov-03

**Address :**

**City :**

**State :** UT

**Postal Code :**

**Attention :**

**cc1 :**

**cc2 :**

**Field :** Helper

**Lease :** Federal 44-6D

**Location :** 44-6D

**Sample Point :** wellhead

**Salesman :** Ed Schwarz

**Comments :** Navajo Formation

**Analyst :** Karen Hawkins Allen

## CATIONS

**Calcium :** 4,640 mg/l  
**Magnesium :** 486 mg/l  
**Barium :** 0  
**Strontium :** 0 mg/l  
**Iron :** 526.0 mg/l  
**Sodium :** 28591 mg/l

## ANIONS

**Chloride :** 47,000 mg/l  
**Carbonate :** 0 mg/l  
**Bicarbonate :** 4,648 mg/l  
**Sulfate :** 5,435 mg/l mg/l mg/l

**pH (field) :** 6.97  
**Temperature :** 85 degrees F  
**Ionic Strength :** 1.52  
**Resistivity :** ohm/meters  
**Ammonia :** ppm

**Specific Gravity :** 1.065 grams/ml  
**Total Dissolved Solids :** 91,326 ppm  
**CO2 in Water :** 686 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 :	0.93	Calcite PTB :	1513.6
Calcite (CaCO3) SI @ 100 F :	1.08	Calcite PTB @ 100 F :	1664.1
Calcite (CaCO3) SI @ 120 F :	1.29	Calcite PTB @ 120 F :	1846.4
Calcite (CaCO3) SI @ 140 F :	1.51	Calcite PTB @ 140 F :	2008.9
Calcite (CaCO3) SI @ 160 F :	1.74	Calcite PTB @ 160 F :	2147.5
Calcite (CaCO3) SI @ 180 F :	1.97	Calcite PTB @ 180 F :	2254.5
Calcite (CaCO3) SI @ 200 F :	2.21	Calcite PTB @ 200 F :	2345.6
Gypsum (CaSO4) SI :	0.33	Gypsum PTB :	1256.4
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

# Water Analysis Report

**Customer :** Westport Oil & Gas

**Date Sampled :** 14-Nov-03

**Date Reported :** 17-Nov-03

**Date Received :** 17-Nov-03

**Address :**

**City :**

**State :** UT

**Postal Code :**

**Attention :**

**cc1 :**

**cc2 :**

**Field :** Helper

**Lease :** Federal 44-6D

**Location :** 44-6D

**Sample Point :** wellhead

**Salesman :** Ed Schwarz

**Comments :** Windgate Formation

**Analyst :** Karen Hawkins Allen

## CATIONS

**Calcium :** 2,840 mg/l  
**Magnesium :** 875 mg/l  
**Barium :** 0  
**Strontium :** 0 mg/l  
**Iron :** 170.0 mg/l  
**Sodium :** 45138 mg/l

## ANIONS

**Chloride :** 72,000 mg/l  
**Carbonate :** 0 mg/l  
**Bicarbonate :** 3,660 mg/l  
**Sulfate :** 4,135 mg/l mg/l mg/l

**pH (field) :** 6.89  
**Temperature :** 85 degrees F  
**Ionic Strength :** 2.18  
  
**Resistivity :** ohm/meters  
  
**Ammonia :** ppm

**Specific Gravity :** 1.100 grams/ml  
**Total Dissolved Solids :** 128,818 ppm  
**CO2 in Water :** 440 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 :	0.77	Calcite PTB :	989.5
Calcite (CaCO3) SI @ 100 F :	0.93	Calcite PTB @ 100 F :	1125.3
Calcite (CaCO3) SI @ 120 F :	1.14	Calcite PTB @ 120 F :	1290.2
Calcite (CaCO3) SI @ 140 F :	1.36	Calcite PTB @ 140 F :	1426.0
Calcite (CaCO3) SI @ 160 F :	1.58	Calcite PTB @ 160 F :	1547.3
Calcite (CaCO3) SI @ 180 F :	1.81	Calcite PTB @ 180 F :	1649.1
Calcite (CaCO3) SI @ 200 F :	2.05	Calcite PTB @ 200 F :	1738.8
Gypsum (CaSO4) SI :	-0.03	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

### Saturation Index Calculations

8/4/20

*Champion Technologies, Inc.*

(Based on the Tomson-Oddo Model)

	Sample Date	Comments
Brine 1 : Westport Federal 44-6D Navajo formation	various	from average of field waters sampled
Brine 2 : Westport Federal 44-6D Windgate formation	various	from average of field waters sampled
Brine 3 : Westport Cardinal Draw SWD	various	from average of field waters sampled

#### MIXING RATIO as %

Component	MIXING RATIO as %													
	Brine 1	Brine 2	Brine 3	10	20	70	70	40	30	30	50	25	25	25
Calcium ,mg/l	4,640	2,840	224	1,189	1,369	3,838	3,577	2,775	2,595	2,334	3,086	2,636	1,982	
Magnesium ,mg/l	486	875	44	254	216	520	437	470	509	426	473	570		
Barium ,mg/l	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Strontium ,mg/l	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate ,mg/l	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate ,mg/l	4,648	3,660	3,721	3,802	3,900	4,358	4,364	4,074	3,975	3,981	4,169	3,922	3,938	
Sulfate ,mg/l	5,435	4,135	355	1,619	1,749	4,667	4,289	3,521	3,391	3,013	3,840	3,515	2,570	
Chloride ,mg/l	47,000	72,000	11,780	27,346	24,846	48,478	42,456	43,934	46,434	40,412	44,445	50,695	35,640	
Measured pH field	6.97	6.89	7.48	7.31	7.32	7.01	7.06	7.10	7.09	7.15	7.08	7.06	7.21	
Ionic Strength	1.71	2.33	0.41	0.92	0.86	1.70	1.51	1.51	1.57	1.38	1.54	1.70	1.22	
Temperature (°F) °F	85	85	85	85	85	85	85	85	85	85	85	85	85	
Pressure ,psia	100	100	100	100	100	100	100	100	100	100	100	100	100	

#### Saturation Index

Calcite	+ / -	1.24	0.81	0.91	1.11	1.22	1.17	1.23	1.12	1.06	1.12	1.15	1.01	1.14
Gypsum	+ / -	0.31	-0.04	-1.77	-0.63	-0.52	0.17	0.13	-0.06	-0.11	-0.18	0.02	-0.10	-0.28
Hemihydrate	+ / -	0.30	-0.07	-1.66	-0.60	-0.48	0.16	0.12	-0.06	-0.12	-0.18	0.01	-0.11	-0.27
Anhydrite	+ / -	0.17	-0.12	-2.03	-0.85	-0.75	0.03	-0.04	-0.22	-0.27	-0.36	-0.14	-0.25	-0.40
Barite	+ / -	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Celestite	+ / -	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

#### P - Pounds per T - Thousand B - Barrels

Calcite	CaCO3	1806.8	1023.4	167.6	828.4	972.5	1599.5	1624.9	1365.0	1267.6	1267.4	1454.6	1224.5	1184.7
Gypsum	CaSO4-2H2O	1210.4	N/A	N/A	N/A	N/A	620.1	452.0	N/A	N/A	N/A	68.3	N/A	N/A
Hemihydrate	CaSO4-1/2H2O	1000.6	N/A	N/A	N/A	N/A	488.0	349.3	N/A	N/A	N/A	28.8	N/A	N/A
Anhydrite	CaSO4	563.1	N/A	N/A	N/A	N/A	98.1	N/A						
Barite	BaSO4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Celestite	SrSO4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



**AFFIDAVIT OF MAILING**

I, David R. Dix, Attorney-In-Fact, Westport Oil and Gas Company, L.P., being first duly sworn, dispose and state as follows:

On August 12, 2005, I caused to be mailed by certified mail, postage prepaid, return receipt requested, a copy of the UIC permit application for the Wellington Federal 22-04 Salt Water Disposal Well. This application was sent to all operators, owners and surface owners within a one half-mile radius of the subject well.

Dated this 12th day of August, 2005

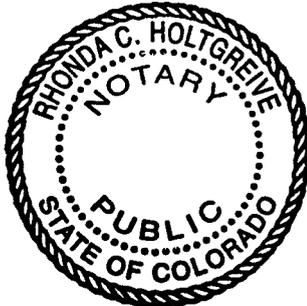
*David R. Dix*

\_\_\_\_\_  
David R. Dix  
Attorney-In-Fact  
Westport Oil and Gas Company, L.P.

The foregoing affidavit was subscribed and sworn to me by David R. Dix  
This 12th day of August, 2005.

*Rhonda C. Holtgreive* Notary Public

My Commission expires the 8<sup>th</sup> day of March, 2008.



**My Commission Expires 03/07/2008**

**UNDERGROUND INJECTION CONTROL PERMIT**

**Cause No. UIC-325.1**

**Operator:** Westport Oil and Gas Company  
**Wells:** Wellington Federal 22-4  
**Location:** Section 4, Township 14 South, Range 11 East (SLBM)  
**County:** Carbon  
**API No.:** 43-007-30967  
**Well Type:** Salt Water Disposal Well

**Stipulations of Permit Approval**

1. Approval for conversion to Injection Well issued on October 24, 2005
2. Maximum Allowable Surface Pressure: 910 psi.
3. Corresponding Injection Rate: 7.25 BPM (limited by pressure)
4. Injection Interval: Perforations between 5,521' and 5,971' in the Navajo Sandstone and Wingate Sandstone.

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Approved by: \_\_\_\_\_  
John R. Baza  
Associate Director

\_\_\_\_\_ Date

jc  
cc: Dan Jackson, Environmental Protection Agency  
Bureau of Land Management, Price  
Carbon County Planning

*Perfs 5521-5971  
Navajo + Wingate*

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** Westport Oil and Gas Company, L.P.

**Well:** Wellington Federal 22-04

**Location:** T14, R11E, S4, Carbon County, Utah

**API:** 4300730967

**Ownership Issues:**

The well is located on Federal land administered by the Bureau of Land Management. It is within the Helper Field. 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 the half-mile Area of Review (AoR) of the proposed injection well.

**Well Integrity:**

Description of the Casings and Cement:

CASING PROGRAM

<b>String Type</b>	<b>Hole Size</b>	<b>Depth</b>	<b>Feet</b>	<b>Casing Diameter</b>	<b>Weight</b>	<b>Grade</b>	<b>Connection Type</b>
Conductor	24"	42'	-	20"	-	-	-
Surface	17½"	624'	-	13 3/8"	48#	H-40	-
Intermediate	12¼"	2,658'	-	9 5/8"	40#	J-55	-
Production	8¾"	6,166'	-	7"	23#	P110	-

CEMENT PROGRAM

<b>String Type</b>	<b>DV Depth</b>	<b>Stage Lead/Tail</b>	<b>Cement Bottom</b>	<b>Cement Top</b>	<b>Number Sacks</b>	<b>Cement Type</b>	<b>Cement Yield</b>	<b>Cement Weight PPG</b>
Conductor	-	-	-	Surface	-	-	-	-
Surface	-	-	-	Surface	600	Class G	1.15	15.8
Intermediate	-	Lead Tail	-	-	300 260	HIFIL Premium V	3.84 1.61	11 14.2
Production	-	-	-	-	980	50/50 POZ	-	-

**Ground Water Protection:**

The operator, Westport Oil and Gas Company, proposes to inject a Helper Field

Ferron (Coal) Member CBM produced water mixture through selective perforations into the Navajo and Wingate Sandstones for the purpose of salt-water disposal. The perforations currently span an interval between 5,521 feet and 5,571 feet of depth. Representative water samples were taken from the combined injectate stream. These test at nearly 26,000 parts per million (ppm) Total Dissolved Solids (TDS). An analysis of the connate waters of the proposed injection zone of the proposed injection well revealed TDS concentrations in the Navajo and Wingate Sandstones to be 55,094 mg/l and 78,973 mg/l, respectively. These are typical analyses in comparison to those obtained from the same injection zones in other SWD wells operating in the Carbon County CBM area. It is unlikely that a good quality ground water resource is to be found in the Navajo and Wingate Sandstones 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 1,981 feet TD.

The operator asks permission to inject at a Maximum Allowable Surface Injection Pressure of 1,000 psig. **Based on the findings of a Step Rate Test undertaken by the operator, this results in an injection rate of about 8,000 barrels per day, which they find to be acceptable for the time being. The test results did not provide indications of formation breakdown at the final pressure attained (1,347 psi @ 5.56 bpm).**

The primary confining layers between the injection zones and the Ferron production zone are the anhydrites and limestones of the Jurassic age Carmel Formation and the Mancos Shale section below the Ferron Member. Electric logs from the Wellington Federal 22-04 indicate the development of several different anhydrite beds, in contrast to the relatively impoverished evaporite section in a well about two and a half miles to the south. The logs from that well indicate a single well developed anhydrite bed and a thinner overall evaporite interval. It may be that this is a result of normal faulting in the evaporite section.

In this area, the Navajo and Wingate Sandstones 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 22-04.

An analysis of the Schlumberger (log dated 9/25/05) Cement Bond Log was undertaken to evaluate the quality of the bond over the confining interval in the well. There is about 38' of cumulative discontinuous 80% bonded cement in the Carmel Formation and lower Entrada Sandstone. This bonding occurs in the overall 400' of strata above the Navajo Sandstone. The longest continuous acceptably bonded interval was about 8'. The CBL was run at 1,000 psi to minimize the microannulus.

This constitutes a rather marginal bond. The division requested that a radioactive tracer (RAT) survey be conducted to reveal any vertical movement of brines behind the casing. The RAT survey was run on 11/15/2005. It revealed that there was no migration of injectate from the injection perforated interval into superjacent zones. The cement bonding between the top of the Navajo Sandstone and the Ferron CBM zone 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 8 miles to the southeast at the abandoned 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:**

Westport Oil and Gas Company, L.P. has posted nationwide blanket bond #158624364 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 Moab District Office, Carbon County Planning and the operator. The notice stated the proposed interval for injection to be selective zones in the Navajo and Wingate Sandstones. Any future injection into a formation 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 Westport Oil and Gas Company, L.P., ought to be granted a permit to utilize the Wellington Federal 22-04 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 10/13/05 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: 11/21/2003

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** Westport Oil and Gas Company, L.P.

**Well:** Wellington Federal 22-04

**Location:** T14, R11E, S4, Carbon County, Utah

**API:** 4300730967

**Ownership Issues:**

The well is located on Federal land administered by the Bureau of Land Management. It is within the Helper Field. 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 the half-mile Area of Review (AoR) 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>
Conductor	24"	42'	-	20"	-	-	-
Surface	17½"	624'	-	13 3/8"	48#	H-40	-
Intermediate	12¼"	2,658'	-	9 5/8"	40#	J-55	-
Production	8¾"	6,166'	-	7"	23#	P110	-

CEMENT PROGRAM

<u>String Type</u>	<u>DV Depth</u>	<u>Stage Lead/Tail</u>	<u>Cement Bottom</u>	<u>Cement Top</u>	<u>Number Sacks</u>	<u>Cement Type</u>	<u>Cement Yield</u>	<u>Cement Weight PPG</u>
Conductor	-	-	-	Surface	-	-	-	-
Surface	-	-	-	Surface	600	Class G	1.15	15.8
Intermediate	-	Lead Tail	-	-	300	HIFIL	3.84	11
					260	Premium V	1.61	14.2
Production	-	-	-	-	980	50/50 POZ	-	-

**Ground Water Protection:**

The operator, Westport Oil and Gas Company, proposes to inject a Helper Field

Ferron (Coal) Member CBM produced water mixture through selective perforations into the Navajo and Wingate Sandstones for the purpose of salt-water disposal. The perforations span an interval between 5,280 feet and 5,740 feet of depth. Representative water samples were taken from the combined injectate stream. These test at nearly 26,000 parts per million (ppm) Total Dissolved Solids (TDS). An analysis of the connate waters of the proposed injection zone of the proposed injection well revealed TDS concentrations in the Navajo and Wingate Sandstones to be 55,094 mg/l and 78,973 mg/l, respectively. These are typical analyses in comparison to those obtained from the same injection zones in other SWD wells operating in the Carbon County CBM area. It is unlikely that a good quality ground water resource is to be found in the Navajo and Wingate Sandstones 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 1,981 feet TD.

The operator asks permission to inject at a Maximum Allowable Surface Injection Pressure of 1,000 psig. **Based on the findings of a Step Rate Test undertaken by the operator, this results in an injection rate of about 8,000 barrels per day, which they find to be acceptable for the time being. The test results did not provide indications of formation breakdown at the final pressure attained (1,347 psi @ 5.56 bpm).**

The primary confining layers between the injection zones and the Ferron production zone are the anhydrites and limestones of the Jurassic age Carmel Formation and the Mancos Shale section below the Ferron Member. Electric logs from the Wellington Federal 22-04 indicate the development of several different anhydrite beds, in contrast to the relatively impoverished evaporite section in a well about two and a half miles to the south. The logs from that well indicate a single well developed anhydrite bed and a thinner overall evaporite interval. It may be that this is a result of normal faulting in the evaporite section.

In this area, the Navajo and Wingate Sandstones 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 22-04.

An analysis of the Schlumberger (log dated 9/25/05) Cement Bond Log was undertaken to evaluate the quality of the bond over the confining interval in the well. There is about 38' of cumulative discontinuous 80% bonded cement in the Carmel Formation and lower Entrada Sandstone. This bonding occurs in the overall 400' of strata above the Navajo Sandstone. The longest continuous acceptably bonded interval was about 8'. The CBL was run at 1,000 psi to minimize the microannulus.

This constitutes a rather marginal bond. The division requested that a radioactive tracer (RAT) survey be conducted to reveal any vertical movement of brines behind the casing. The RAT survey was run on 11/15/2005. It revealed that there was no migration of injectate from the injection perforated interval into superjacent zones. The cement bonding between the top of the Navajo Sandstone and the Ferron CBM zone 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 8 miles to the southeast at the abandoned 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:**

Westport Oil and Gas Company, L.P. has posted nationwide blanket bond #158624364 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 Moab District Office, Carbon County Planning and the operator. The notice stated the proposed interval for injection to be selective zones in the Navajo and Wingate Sandstones. Any future injection into a formation 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 Westport Oil and Gas Company, L.P., ought to be granted a permit to utilize the Wellington Federal 22-04 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 10/13/05 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: 11/21/2003

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** Westport Oil and Gas Company, L.P.      **Well:** Wellington Federal 22-04

**Location:** T14, R11E, S4, Carbon County, Utah      **API:** 4300730967

**Ownership Issues:**

The well is located on Federal land administered by the Bureau of Land Management. It is within the Helper Field. 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 the half-mile Area of Review (AoR) 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>
Conductor	24"	40'	40'	20"	-	-	-
Surface	17½"	446'	-	13 3/8"	48#	H-40	ST&C
Intermediate	12¼"	2,659'	-	9 5/8"	36#	J-55	ST&C
Production	8 7/8"	6,369'	-	7"	26#	J-55,	LT&C

CEMENT PROGRAM

<u>String Type</u>	<u>DV Depth</u>	<u>Stage Lead/Tail</u>	<u>Cement Bottom</u>	<u>Cement Top</u>	<u>Number Sacks</u>	<u>Cement Type</u>	<u>Cement Yield</u>	<u>Cement Weight PPG</u>
Conductor	-	-	-	Surface	30	Ready Mix	-	-
Surface	-	-	-	Surface	475	Class G	1.18	15.6
Intermediate	-	Lead Tail	-	Surface	325 285	HIFIL Premium Plus	3.86 1.6	11 14.2
Production	4,335'	1 <sup>st</sup> Stg. Lead Tail	-	3,060 (CBL)	275 260	50/50 POZ 50/50 POZ	1.94 1.18	12.5 14.3
"	-	2 <sup>nd</sup> Stg. Lead Tail	-	-	275 125	50/50POZ Premium AG (Class G)	1.94 1.18	12.5 15.8

## **Ground Water Protection:**

The operator, Westport Oil and Gas Company, proposes to inject a Helper Field Ferron (Coal) Member CBM produced water mixture through selective perforations into the Navajo and Wingate Sandstones for the purpose of salt water disposal. The perforations span an interval between 5,280 feet and 5,740 feet of depth. Representative water samples were taken from the injectate stream at an existing salt water disposal well in Cardinal Draw. These test at nearly 25,000 parts per million (ppm) Total Dissolved Solids (TDS). An analysis of the connate waters of the proposed injection zone of the proposed injection well revealed TDS concentrations in the Navajo and Wingate Sandstones to be 81,844 mg/l and 121,518 mg/l, respectively. These are typical analyses in comparison to those obtained from the same injection zones in other SWD wells operating in the Carbon County CBM area. It is unlikely that a good quality ground water resource is to be found in the Navajo and Wingate Sandstones 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 2,009 feet.

The operator asks permission to inject at a Maximum Allowable Surface Injection Pressure of 1,000 psig. Based on the findings of a Step Rate Test undertaken by the operator, this results in an injection rate of about 8,000 barrels per day, which they find to be acceptable for the time being. The test results did not provide indications of formation breakdown at the final pressure attained (1,347 psi @ 5.56 bpm).

The primary confining layers between the injection zones and the Ferron production zone are the anhydrites and limestones of the Jurassic age Carmel Formation and the Mancos Shale section below the Ferron Member. Electric logs from the Wellington Federal 22-04 indicate the development of five different anhydrite beds, indicative of anomalous local evaporite development. This stands in contrast to the impoverished evaporite section in a well about two and a half miles to the southeast. The logs from that well indicate a single well developed anhydrite bed and a thinner overall evaporite interval. It may be that this is a result of normal faulting in the evaporite section.

In this area, the Navajo and Wingate Sandstones 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 22-04.

An analysis of the Cement Bond Log was undertaken to evaluate the quality of the

bond over the confining interval in the well. The lower Mancos Shale (below the Ferron Member) is well bonded over a considerable interval. There is about 80' of cumulative discontinuous 80% bonded cement in the Carmel Formation and about 108' of cumulative discontinuous 80% bonded cement if a portion of the lower Entrada Sandstone is included. This bonding occurs in the overall 700' of strata above the Navajo Sandstone. The longest continuous acceptably bonded interval in the Carmel Formation was about 40'. Nearly all of the acceptably bonded cement in the Carmel Formation occurs in shale rather than limestone. While it is problematic whether the transit time curve is presenting cycle skipping or excentricity in the Carmel section, it is worth observing that the same circumstance occurs in the apparently well bonded lower Mancos Shale interval. The CBL was run at 500 psi to minimize the microannulus. The cement bonding between the top of the Navajo Sandstone and the Ferron CBM zone 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 8 miles to the southeast at the abandoned 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:**

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**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 Moab District Office, Carbon County Planning, Price City and the operator. The notice stated the proposed interval for injection to be selective zones in the Navajo and Wingate Sandstones. Any future injection into a formation 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 Westport Oil and Gas Company, L.P., ought to be granted a permit to utilize the

Wellington Federal 22-04 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 11/18/03 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: 11/21/2003

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

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IN THE MATTER OF THE APPLICATION OF WESTPORT OIL & GAS COMPANY, LP FOR ADMINISTRATIVE APPROVAL OF THE WELLINGTON FEDERAL 22-04 SWDW WELL LOCATED IN SECTION 4, TOWNSHIP 14 SOUTH, RANGE 11 EAST, CARBON COUNTY, UTAH, AS A CLASS II INJECTION WELL	: : : : :	NOTICE OF AGENCY ACTION  CAUSE NO. UIC 325
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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 application of Westport Oil & Gas Company, LP for administrative approval of the Wellington Federal 22-04 SWDW well, located in SENW Section 4, Township 14 South, Range 11 East, Carbon County, Utah, for conversion to a Class II injection well. The adjudicative proceeding will be conducted informally according to Utah Admin.Rule R649-10, Administrative Procedures.

Selective zones in the Navajo and Wingate Sandstones Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Westport Oil & Gas Company, LP.

Any person desiring to object to the proposed application 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 this proceeding is Gil Hunt, Associate Director at PO 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 9th day of September, 2005.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Gil Hunt  
Associate Director

**Westport Oil & Gas Company, LP  
Wellington Federal 22-04 SWDW  
Cause No. UIC 325**

Publication Notices were sent to the following:

Westport Oil & Gas Company, LP  
1670 Broadway, Suite 1800  
Denver, Colorado 80202

via E-Mail and Facsimile (435) 637-2716  
Sun Advocate  
845 East Main Street  
Price, UT 84501

via E-Mail and Facsimile (801) 237-2577)  
Salt Lake Tribune  
PO Box 45838  
Salt Lake City, UT 84145

Moab Field Office District Office  
Bureau of Land Management  
82 East Dogwood, Suite M  
Moab, UT 84532

Carbon County Planning  
120 East Main Street  
Price, UT 84501

Dan Jackson  
US EPA Region VIII, Suite 5000  
999 18th Street  
Denver, CO 80202-2466

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Julie Carter  
Executive Secretary  
September 9, 2005

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

UIC FORM 1

**APPLICATION FOR INJECTION WELL**

Name of Operator Westport Oil and Gas Company, L.P.	Utah Account Number N 2115	Well Name and Number Wellington Federal 22-04 SWDW
Address of Operator 1670 Broadway #2800 CITY Denver STATE CO ZIP 80202	Phone Number (303) 573-5404	API Number 4300730967
Location of Well Footage : 1500' FWL, 2350' FNL County : Carbon QQ, Section, Township, Range: SENW 4 14S 11E State : UTAH		Field or Unit Name Undesignated Lease Designation and Number Federal UTU-80560

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 checked="" type="checkbox"/>
Disposal?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Storage?	Yes <input type="checkbox"/>	No <input checked="" 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: \_\_\_\_\_

*UIC-325.1*

Proposed injection interval: from 5,280 to 5,740  
Proposed maximum injection: rate 10,000 bpd pressure 1,000 psig  
Proposed injection zone contains oil , gas , and / or fresh water  within 1/2 mile of the well.

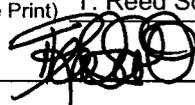
*Please Create a draft Notice document for this well. Thank you*

List of attachments: Drilling prognosis wellbore diagram

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

*Formation  
Navajo +  
Wingate Sandstone*

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

Name (Please Print) T. Reed Scott  
Signature 

Title Senior Engineering Specialist  
Date 8/11/2005

**RECEIVED**  
**AUG 16 2005**



WESTPORT OIL AND GAS COMPANY, L.P.

1670 Broadway Suite 2800 Denver Colorado 80202  
Telephone: 303 573 5404 Fax: 303 573 5609

August 19, 2005

Mr. Chris Kierst  
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: Additional Information  
UIC Permit Application  
Wellington Federal 22-04 SWDW  
SE/4,NW/4 Section 4 T14S-R11E  
Carbon County, Utah

Dear Chris:

As discussed in our telecom of 8/18/05, please find enclosed the following additional information for the UIC permit application for the Wellington Federal 22-04 SWDW:

- Plats showing the surface, mineral and leasehold ownership within a ½-mile radius
- A structure map on the top of the Navajo formation
- A cross-section of all of the Navajo penetrations in the area showing continuity of the anhydrites in the Carmel and other confining layers

If you have any questions or require additional information, please call me at 303-628-1593 (office) or 303-916-6206 (cell). Thank you for your assistance in this matter.

Sincerely,

Reed Scott  
Senior Engineering Specialist

Enclosures

RECEIVED  
AUG 23 2005

UTAH DEPARTMENT OF NATURAL RESOURCES & MINING

32 **13S/11E** 33

34

5

WELLINGTON FEDERAL  
#22-4 SWD



4

1/2 MILE RADIUS

3

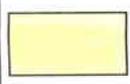
8 **14S/11E** 9

10

RECEIVED

AUG 23 2005

DIV. OF OIL, GAS & MINING



**LEASEHOLD OWNERSHIP =**  
Westport Oil and Gas Company, L.P.  
Robert L. Bayless, Producer LLC



Westport Oil and Gas Company, L.P.



Wellington Federal #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B. & M.  
2350' FNL 1500' FWL

Author: Doug DeGree

Scale: 1" = 2000 Ft.

Date: August 19, 2005

32 **13S/11E** 33

34

USA

1/2 MILE RADIUS

WELLINGTON FEDERAL  
#22-4 SWD

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USA

USA

8 **14S/11E** 9

10



**SURFACE OWNERSHIP = USA**

RECEIVED

AUG 23 2005

DIV. OF OIL, GAS & MINING



Westport Oil and Gas Company, L.P.



Wellington Federal #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B. & M.  
2350' FNL 1500' FWL

Author: Doug DeGree

Scale: 1" = 2000 Ft.

Date: August 19, 2005

32 **13S/11E** 33

34

USA

1/2 MILE RADIUS

WELLINGTON FEDERAL  
#22-4 SWD

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USA

USA

8 **14S/11E** 9

10



MINERAL OWNERSHIP = USA

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AUG 23 2005

DIV. OF OIL, GAS & MINING



Westport Oil and Gas Company, L.P.

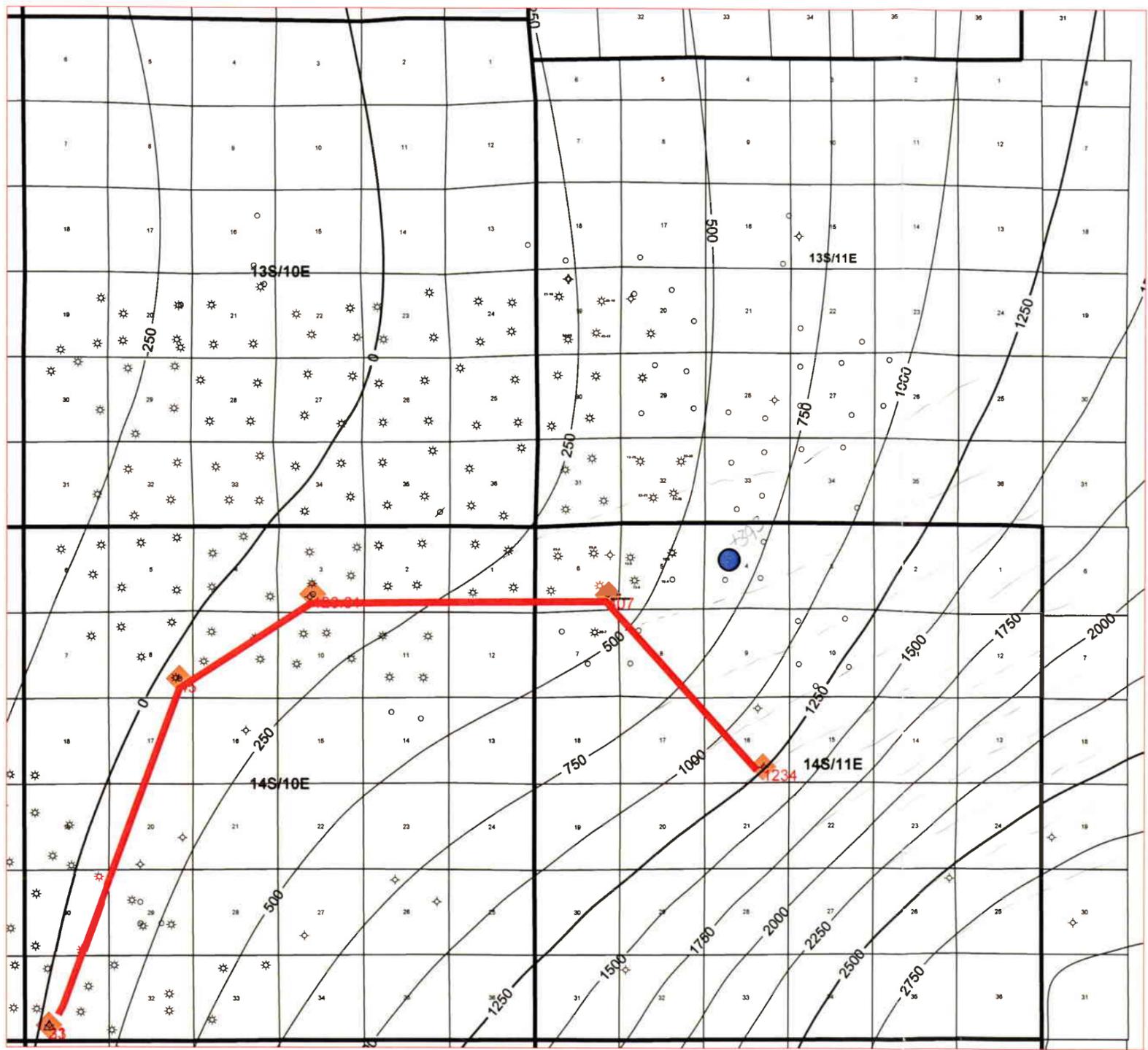


Wellington Federal #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B. & M.  
2350' FNL 1500' FWL

Author: Doug DeGree

Scale: 1" = 2000 FL

Date: August 19, 2005



Wellington Federal  
22-04 SWD well



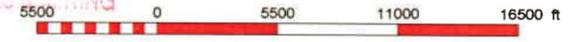
Navajo Penetrations

RECEIVED

AUG 23 2005

DIV. OF OIL, GAS & MINING

1 inch = 8000 feet



**Westport Oil & Gas Company, L.P.**



Structure Map: Top Navajo Sandstone  
Wellington Federal 22-04 SWD Project  
Ferron Coal Play  
East Helper Field Area, Carbon County, Utah

Author: M.G. Lehrer	C.I. = 250 Ft.	Date: 8/19/05
1"=8000'		

Kerr-McGee Rocky Mountain Corporation  
1670 Broadway, Suite 2800  
Denver, CO 80202  
303-673-6404 (main)  
303-573-5608 (fax)

# Fax Transmittal



TO: <u>Chris Kierst</u>	COMPANY: <u>Utah Division of Oil, Gas &amp; Mining</u>
FAX #: <u>801-359-3940</u>	PHONE #: _____
CC: _____	COMPANY: _____
FAX #: _____	PHONE #: _____
FROM: <u>Reed Scott</u>	COMPANY: <u>Kerr-McGee Rocky Mountain Corporation / Westport</u>
DATE: <u>8/19/05</u>	RE: _____

Number of pages including cover sheet 4

## Message:

Chris,  
 I am Fed Ex'ing the originals for delivery Monday morning. They show the acreage in color. I had to add the lines to the leasehold ownership for the fax because we used yellow on that map. Our Geologist is working on the structure map and cross-sections. Please call if you have any questions. 303-628-1593  
 Thanks  
 Reed

**Confidentiality Note:**

The documents accompanying this facsimile transmission contain information from Kerr-McGee Corporation, which is confidential or privileged. The information is intended to be for the use of the individual or entity named on this transmission sheet. If you are not the intended recipient, be aware that disclosure, copying, distribution or use of the contents of this faxed information is prohibited. If you have received this facsimile in error, please notify us by telephone at 303-296-3600 immediately so that we can arrange for the retrieval of the original documents at no cost to you. Thank you.

RECEIVED

AUG 19 2005

DIV. OF OIL, GAS & MINING

32 13S/11E 33

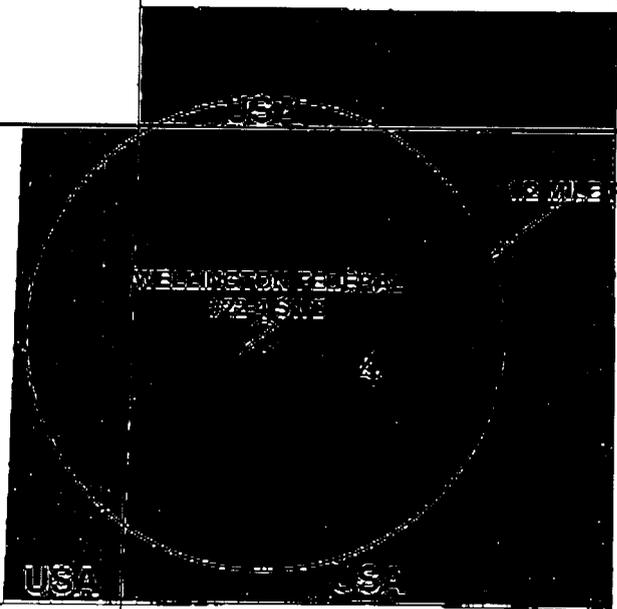
34

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8 14S/11E 9

10



1/2 MILE RADIUS

WELLINGTON FEDERAL #22-4 SWD  
2250' FNL 1500' FWL

USA

USA



SURFACE OWNERSHIP = USA



Westport Oil and Gas Company, L.P.



Wellington Federal #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B. & M  
2250' FNL 1500' FWL

Author: Doug DeGree

Scale: 1" = 2000 Ft.

Date: August 19, 2005

32 13S/11E 33

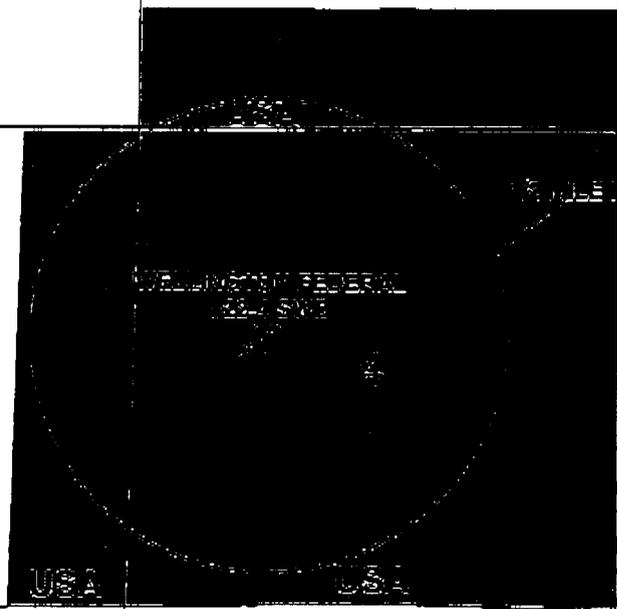
34

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8 14S/11E 9

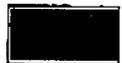
10



1/2 MILE RADIUS

USA

USA



MINERAL OWNERSHIP = USA

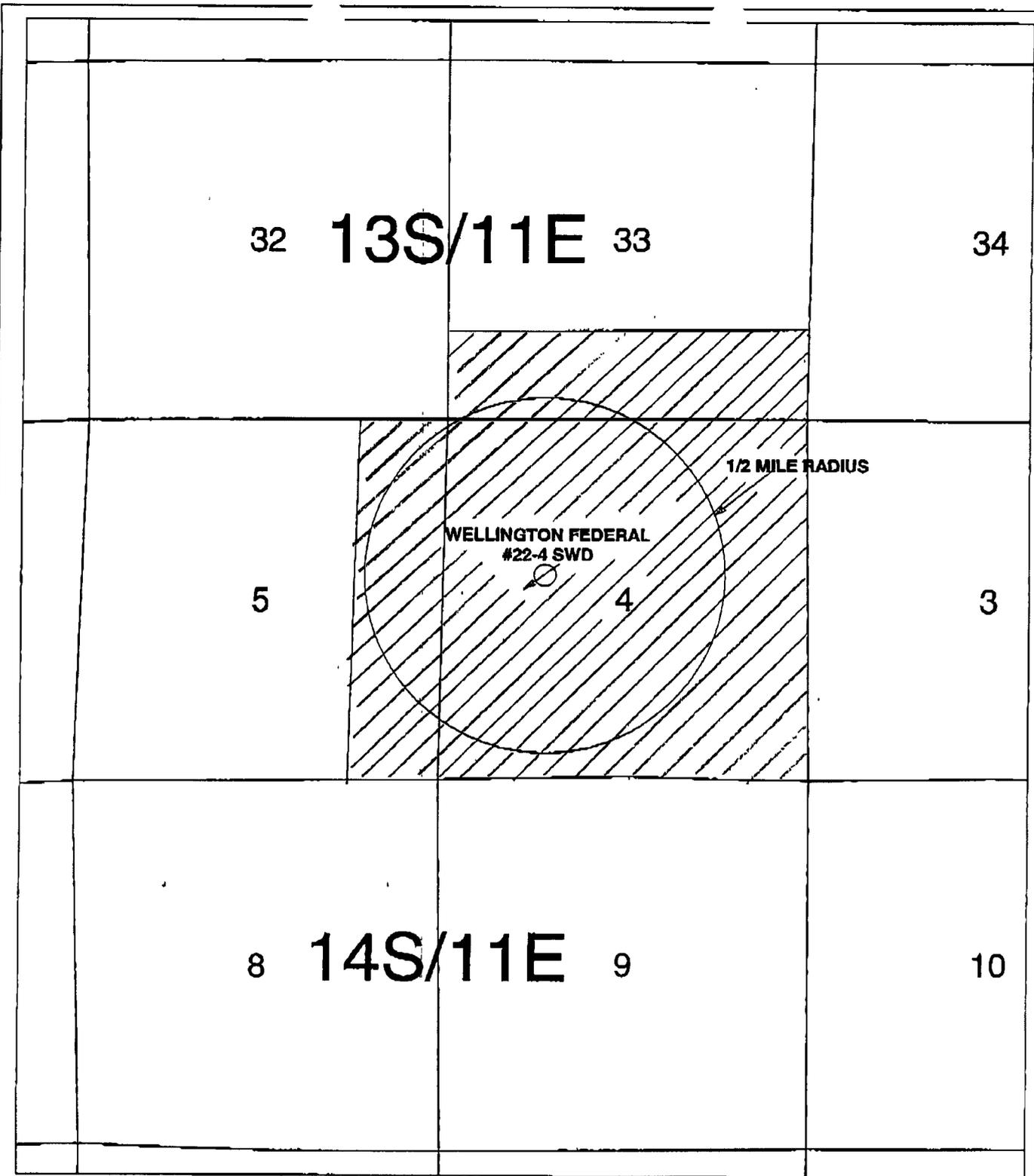


Westport Oil and Gas Company, L.P.



Wellington Federal #22-4 SWD  
SECTION 4, T14S, R11E, S.L.B. & M.  
2350' FNL 1500' FWL

Author: Doug DeCree	Scale: 1" = 2000 Ft.	Date: August 19, 2005
---------------------	----------------------	-----------------------




**LEASEHOLD OWNERSHIP =**  
 Westport Oil and Gas Company, L.P.  
 Robert L. Bayless, Producer LLC



<b>Westport Oil and Gas Company, L.P.</b> 		
Wellington Federal #22-4 SWD SECTION 4, T14S, R11E, S1, E. & M. 2550' FNL 1500' FWL		
Author: Doug D-Crew	Scale: 1" = 2000 Ft.	Date: August 19, 2005

# Fax Transmittal

Kerr-McGee Rocky Mountain Corporation  
1670 Broadway, Suite 2800  
Denver, CO 80202  
303-573-5404 (main)  
303-573-5609 (fax)



TO: <u>Chris Kierst</u>	COMPANY: <u>Utah Division of Oil, Gas &amp; Mining</u>
FAX #: <u>801-359-3940</u>	PHONE #: _____
CC: _____	COMPANY: _____
FAX #: _____	PHONE #: _____
FROM: <u>Reed Scott</u>	COMPANY: <u>Kerr-McGee Rocky Mountain Corporation / Westport</u>
DATE: <u>8/19/05</u>	RE: _____

Number of pages including cover sheet 2

## Message:

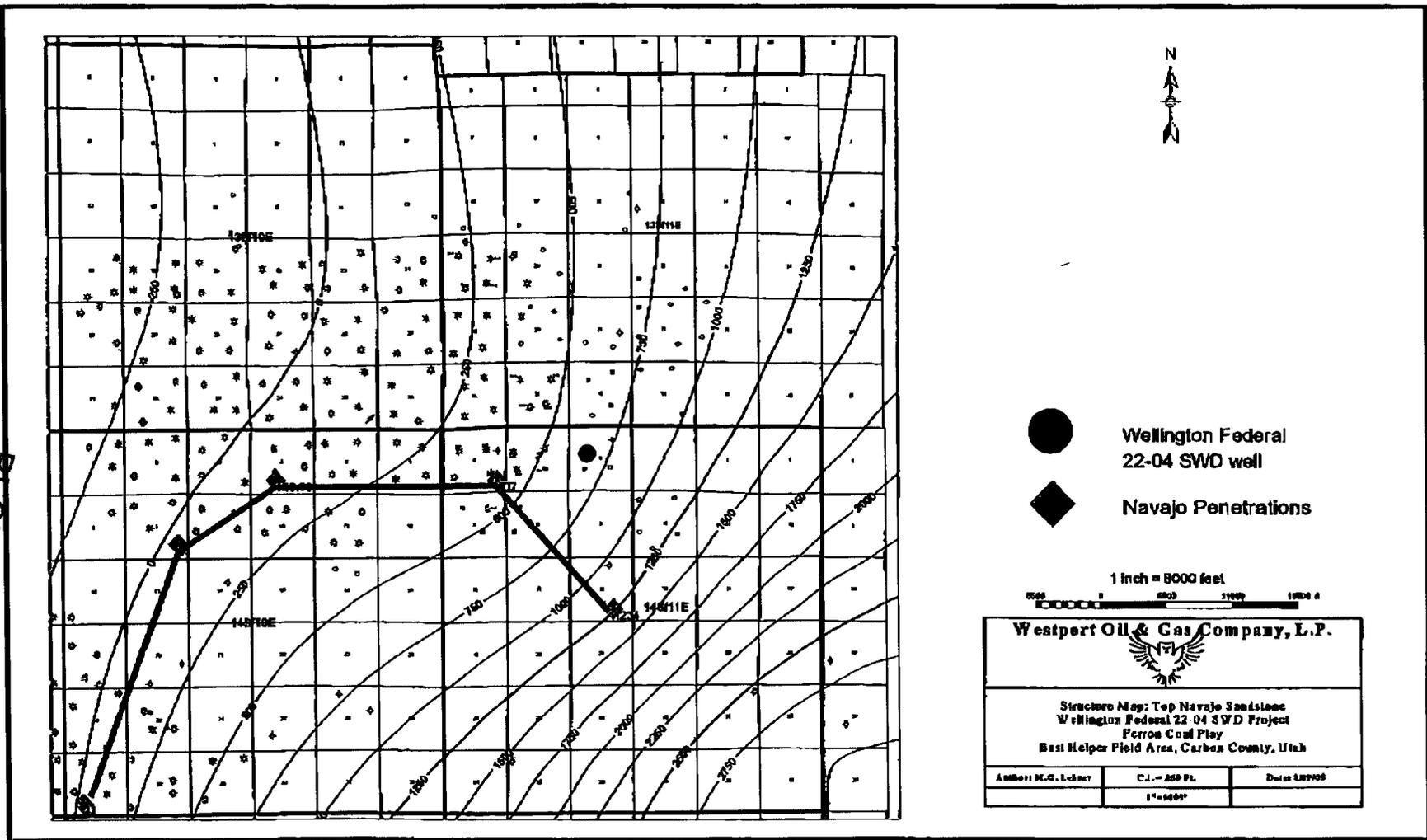
**Confidentiality Note:**

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RECEIVED

AUG 19 2005

DIV. OF OIL, GAS & MINING



RECEIVED  
 AUG 19 2005  
 DIVISION OF MINING

August 30, 2005

Reed Scott  
Westport Oil and Gas Company, L.P.  
1670 Broadway  
Suite 2800  
Denver, CO 80202-4800

Re: Wellington Federal 22-04 Salt Water Disposal Well, Section 4 Township 14 South, Range 11

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 Westport Oil and Gas Company.
3. Sampling and analysis of the connate water from the proposed injection zone including submission of a copy of the results to the Division.
4. Conduct a step rate test to establish the maximum allowable surface injection pressure and submission of a copy to the Division.

If you have any questions regarding this approval or the necessary requirements, please contact Christopher Kierst at (801) 538-5337 at this office.

Sincerely,

Gilbert L. Hunt  
Associate Director

CK/ts

cc: Dan Jackson, Environmental Protection Agency  
Eric Jones, BLM Moab Office  
Carbon County Planning

\*\*\*\*\*  
\* P.01 \*  
\* TRANSACTION REPORT \*  
\* SEP-09-2005 FRI 03:23 PM \*  
\* FOR: OIL, GAS & MINING 801 359 3940 \*  
\*-----\*  
\* DATE START RECEIVER TX TIME PAGES TYPE NOTE M# DP \*  
\* SEP-09 03:23 PM 2372577 45" 2 SEND OK 556 \*  
\*-----\*  
\* TOTAL : 45S PAGES: 2 \*  
\*\*\*\*\*



State of Utah

Department of  
Natural Resources

MICHAEL R. STYLER  
*Executive Director*

Division of  
Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

September 9, 2005

SENT VIA E-MAIL AND FAX (801) 237-2577

Salt Lake Tribune  
PO Box 45838  
Salt Lake City, UT 84145

Re: Notice of Agency Action - Cause No. UIC 325

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

TRANSACTION REPORT

P.01

SEP-09-2005 FRI 03:22 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
SEP-09	03:21 PM	14356372716	43"	2	SEND	OK	555	

TOTAL : 43S PAGES: 2



State of Utah

Department of Natural Resources

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA  
Division Director

JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

September 9, 2005

SENT VIA E-MAIL AND FAX (435) 637-2716

Sun Advocate  
845 East Main Street  
Price, UT 84501

Re: Notice of Agency Action - Cause No. UIC 325

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Sincerely,



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
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Sincerely,

A handwritten signature in black ink that reads "Julie Carter".

Julie Carter  
Executive Secretary

encl.



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

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September 9, 2005

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Julie Carter  
Executive Secretary

encl.

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC 323

IN THE MATTER OF THE APPLICATION OF WESTPORT OIL & GAS COMPANY, LP FOR ADMINISTRATIVE APPROVAL OF THE WELLINGTON FEDERAL 22-04 SWDW WELL LOCATED IN SECTION 4, TOWNSHIP 14 SOUTH, RANGE 11 EAST, CARBON COUNTY, UTAH, AS A CLASS II INJECTION WELL

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 application of Westport Oil & Gas Company, LP for administrative approval of the Wellington Federal 22-04 SWDW well, located in SENW Section 4, Township 14 South, Range 11 East, Carbon County, Utah, for conversion to a Class II injection well. The adjudicative proceeding will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

Selective zones in the Navajo and Wingate Sandstones Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Westport Oil & Gas Company, LP.

Any person desiring to object to the proposed application 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 this proceeding is Gil Hunt, Associate Director at PO 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 9th day of September, 2005.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

/s/ Gil Hunt  
Associate Director

8202V9TT

**From:** Julie Carter  
**To:** Chris Kierst  
**Date:** 09/09/2005 4:29:01 PM  
**Subject:** Fwd: RE: Legal Notice UIC 325

Chris, UIC 325 will print in the SLTrib on Sept 15.

>>> "naclegal" <naclegal@nacorp.com> 9/9/2005 3:57:46 PM >>>  
Please check the ad in the paper on Sept. 15.  
Cost is \$142.50. Ad # 8202V9TT.

Thank you.

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

**From:** Julie Carter [<mailto:juliecarter@utah.gov>]  
**Sent:** Friday, September 09, 2005 3:19 PM  
**To:** [naclegal@nacorp.com](mailto:naclegal@nacorp.com)  
**Subject:** Legal Notice UIC 325

Please find attached a Notice of Agency Action - Cause No. UIC 325.  
Please publish the notice, once only, as soon as possible. Please  
email  
me back with the print date at [JULIECARTER@utah.gov](mailto:JULIECARTER@utah.gov)  
Thank you.

Julie Carter  
Executive Secretary  
Oil, Gas and Mining  
801.538.5277

My account number is D538 5340 L-07.

**From:** Julie Carter  
**To:** Chris Kierst  
**Date:** 9/12/2005 3:40:42 PM  
**Subject:** Fwd: Re: Legal Notice UIC 325

>>> Sun Advocate Legals <legals@sunad.com> 9/12/2005 3:25 PM >>>

We did receive this notice and it is scheduled to be Published in the Sun Advocate September 13, 2005.

Julie Carter wrote:

- > Please find attached a Notice of Agency Action - Cause No. UIC 325.
- > Please publish the notice, once only, as soon as possible. Please send
- > proof of publication and billing to the Division of Oil, Gas and Mining,
- > PO Box 145801, Salt Lake City, Utah 84114-5801. Please email
- > me back with the print date at [JULIECARTER@utah.gov](mailto:JULIECARTER@utah.gov)
- > Thank you.
- >
- > Julie Carter
- > Executive Secretary
- > Oil, Gas and Mining
- > 538-5277
- >
- >
- >

Sun Advocate  
9/13/05

## NOTICE OF AGENCY ACTION

CAUSE NO. UIC 325

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

IN THE MATTER OF THE APPLICATION OF WESTPORT OIL & GAS COMPANY, LP FOR ADMINISTRATIVE APPROVAL OF THE WELLINGTON FEDERAL 22-04 SWDW WELL LOCATED IN SECTION 4, TOWNSHIP 14 SOUTH, RANGE 11 EAST, CARBON COUNTY, UTAH, AS A CLASS II INJECTION WELL  
THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

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Dated this 9th day of September, 2005.

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

Published in the Sun Advocate September 13, 2005.

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

---

IN THE MATTER OF THE APPLICATION OF WESTPORT OIL & GAS COMPANY, LP FOR ADMINISTRATIVE APPROVAL OF THE WELLINGTON FEDERAL 22-04 SWDW WELL LOCATED IN SECTION 4, TOWNSHIP 14 SOUTH, RANGE 11 EAST, CARBON COUNTY, UTAH, AS A CLASS II INJECTION WELL	:	NOTICE OF AGENCY ACTION
	:	CAUSE NO. UIC 325
	:	

---

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

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Dated this 9th day of September, 2005.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Gil Hunt  
Associate Director

**Westport Oil & Gas Company, LP  
Wellington Federal 22-04 SWDW  
Cause No. UIC 325**

Publication Notices were sent to the following:

Westport Oil & Gas Company, LP  
1670 Broadway, Suite 1800  
Denver, Colorado 80202

via E-Mail and Facsimile (435) 637-2716  
Sun Advocate  
845 East Main Street  
Price, UT 84501

via E-Mail and Facsimile (801) 237-2577  
Salt Lake Tribune  
PO Box 45838  
Salt Lake City, UT 84145

Moab Field Office District Office  
Bureau of Land Management  
82 East Dogwood, Suite M  
Moab, UT 84532

Carbon County Planning  
120 East Main Street  
Price, UT 84501

Dan Jackson  
US EPA Region VIII, Suite 5000  
999 18th Street  
Denver, CO 80202-2466



---

Julie Carter  
Executive Secretary  
September 9, 2005

**From:** Julie Carter  
**To:** Chris Kierst  
**Date:** 09/12/2005 3:40:42 PM  
**Subject:** Fwd: Re: Legal Notice UIC 325

>>> Sun Advocate Legals <legals@sunad.com> 9/12/2005 3:25 PM >>>

We did receive this notice and it is scheduled to be Published in the Sun Advocate September 13, 2005.

Julie Carter wrote:

- > Please find attached a Notice of Agency Action - Cause No. UIC 325.
- > Please publish the notice, once only, as soon as possible. Please send
- > proof of publication and billing to the Division of Oil, Gas and Mining,
- > PO Box 145801, Salt Lake City, Utah 84114-5801. Please email
- > me back with the print date at [JULIECARTER@utah.gov](mailto:JULIECARTER@utah.gov)
- > Thank you.
- >
- > Julie Carter
- > Executive Secretary
- > Oil, Gas and Mining
- > 538-5277
- >
- >
- >

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Address **N:\O&G Permits\Injection Permits\Westport Oil & Gas Co\Wellington Federal 22-04** Go

Name	Size	Type	Date Modified
~\Wellington Federal 22-4 SWD Approval Letter.doc	1 KB	Microsoft Word Doc...	09/14/2005 3:08 PM
Wellington Federal 22-4 SWD Approval Letter.doc	29 KB	Microsoft Word Doc...	08/30/2005 10:59 AM
Wellington Federal 22-04 SWD Statement of Basis.doc	52 KB	Microsoft Word Doc...	08/30/2005 2:44

9/14/05

*Julie, please prepare this approval letter for signature & mailing but hold it until the Notice Period ends. Thanks  
Chris K.*

**Folders**

- Anadarko
- Aviara
- Bill Barrett Corp
- ChevronTexaco
- Citation O&G Corp
- ConocoPhillips
- Devon
- El Paso
- Flying J Davis 1-33A1E
- Huber UIC Apps
- Injection Document Primitives
- Intrepid
- Jw Operating
- Klabzuba
- Rosewood
- Seeley Oil Cowboy 1
- Shenandoah
- SWD Basis
- Tom Brown, Inc
- UIC Aprvis
- UIC Permits
- Water Disposal Inc
- Westport Oil & Gas Co
  - Wellington Federal 22-04
    - Wellington Federal 44-6 SWD Permit
- Wolverine Gas & Oil Co. of Utah
- Investigational Reports



State of Utah

Department of Natural Resources

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA  
Division Director

JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

October 7, 2005

FAX 2790  
(720) 264-~~6628~~

Reed Scott  
Westport

This needs to be mailed  
CK 11/07/06

Reed Scott  
Westport Oil and Gas Company, L.P.  
1670 Broadway, Suite 2800  
Denver, CO 80202-4800

Re: Wellington Federal 22-04 Salt Water Disposal Well, Section 4,  
Township 14 South, Range 11 East, Carbon County, Utah

Dear Mr. Scott:

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 Westport Oil and Gas Company.
3. Sampling and analysis of the connate water from the proposed injection zone including submission of a copy of the results to the Division.
4. Conduct a step rate test in the Spring of 2006 to establish the maximum allowable surface injection pressure and submission of a copy to the Division.
5. Conduct a radioactive tracer (RAT) survey in 2005.

Post-it® Fax Note		7671	Date	10/19/05	# of pages	2
To	Reed Scott		From	Chris Kuest		
Co./Dept.	Westport O&G		Co.	DOGM		
Phone #			Phone #			
Fax #	720-264-6628		Fax #	801-359-3940		

Page 2  
Mr. Reed Scott  
October 7, 2005

If you have any questions regarding this approval or the necessary requirements, please contact Christopher Kierst at (801) 538-5337 at this office.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt", with a stylized flourish at the end.

Gil Hunt  
Associate Director

CK:mf

cc: Dan Jackson, Environmental Protection Agency  
Eric Jones, BLM Moab Office  
Carbon County Planning

TRANSACTION REPORT

P. 01

OCT-19-2005 WED 09:55 AM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
OCT-19	09:54 AM	17202646628	37"	2	SEND	OK	793	
TOTAL :						37S	PAGES:	2



State of Utah

Department of Natural Resources

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA  
Division Director

JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

October 7, 2005

Reed Scott  
Westport Oil and Gas Company, L.P.  
1670 Broadway, Suite 2800  
Denver, CO 80202-4800

Re: Wellington Federal 22-04 Salt Water Disposal Well, Section 4, Township 14 South, Range 11 East, Carbon County, Utah

Dear Mr. Scott:

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



WESTPORT OIL AND GAS COMPANY, L.P.

1999 3700  
1670 Broadway Suite 2800 Denver Colorado 80202  
Main Telephone: 303 ~~573-5404~~ Fax: 303 ~~573-5609~~  
296 3600 296 3601

October 17, 2005

Mr. Chris Kierst  
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: UIC Permit Application – Water Analyses  
Wellington Federal 22-04 SWDW  
SE/4,NW/4 Section 4 T14S-R11E  
Carbon County, Utah

Dear Chris:

As required for the UIC application we have filed for the Wellington Federal 22-04 SWDW, enclosed are water analyses for the Wingate and Navajo formations, the combined produced water stream from the Ferron formation and the results of the compatibility testing.

If you have any questions or require additional information, please call me at 720-264-2790 (office) or 303-916-6206 (cell). Thank you for your assistance in this matter.

Sincerely,

Reed Scott  
Senior Engineering Specialist

Enclosures

PS: We have moved offices. Please note our new address and my new office telephone number above.

RECEIVED

OCT 18 2005

DIV. OF OIL, GAS & MINING

# Water Analysis Report

11-Oct-05  
01-Oct-05  
03-Oct-05  
07-Oct-05

Date Sampled :  
Date Received :  
Date Reported :

Westport Oil & Gas

Field : Helper  
Lease : Wellington Federal

UT

Location : Well No. 44-06 SWD

Attention :  
cc1 :

Sample Point : wellhead

cc2 :  
cc3 :

Salesman : Scott Harbison

Analyst : Karen Hawkins Allen

Comments : ACID GASES RAN IN LAB. Ferron formation - Combined - All producing wells

## CATIONS

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

## ANIONS

Chloride : 12,720 mg/l  
Carbonate : 0 mg/l  
Bicarbonate : 3,428 mg/l  
Sulfate : 108 mg/l mg/l mg/l  
  
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

# Water Analysis Report

11-Oct-05  
01-Oct-05  
03-Oct-05  
07-Oct-05

Date Sampled :  
Date Received :  
Date Reported :

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 : Navajo formation. ACID GASES RAN IN LAB.

## C A T I O N S

Calcium : 2,430 mg/l  
Magnesium : 1,215 mg/l

Barium : mg/l  
Strontium : mg/l  
Iron : 526.0 mg/l

Manganese : mg/l  
Sodium : 16282 mg/l

pH (field) : 6.41  
Temperature : 85 degrees F  
Ionic Strength : 0.93

Resistivity : ohm/meters

Ammonia : ppm

## A N I O N S

Chloride : 30,220 mg/l

Carbonate : 0 mg/l

Bicarbonate : 3,401 mg/l

Sulfate : 1,020 mg/l mg/l mg/l

Specific Gravity : 1.035 grams/ml  
Total Dissolved Solids : 55,094 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 :	0.84	Calcite PTB :	954.5
Calcite (CaCO3) SI @ 100 F :	1.00	Calcite PTB @ 100 F :	1074.9
Calcite (CaCO3) SI @ 120 F :	1.21	Calcite PTB @ 120 F :	1211.8
Calcite (CaCO3) SI @ 140 F :	1.43	Calcite PTB @ 140 F :	1336.3
Calcite (CaCO3) SI @ 160 F :	1.65	Calcite PTB @ 160 F :	1440.1
Calcite (CaCO3) SI @ 180 F :	1.88	Calcite PTB @ 180 F :	1531.4
Calcite (CaCO3) SI @ 200 F :	2.12	Calcite PTB @ 200 F :	1608.2
Gypsum (CaSO4) SI :	-0.58	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  
01-Oct-05  
03-Oct-05  
07-Oct-05

Date Sampled :  
Date Received :  
Date Reported :

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.

## C A T I O N S

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

## A N I O N S

Chloride :	44,540 mg/l
Carbonate :	0 mg/l
Bicarbonate :	2,396 mg/l
Sulfate :	3,088 mg/l    mg/l    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



# Saturation Index Calculations

Champion Technologies, Inc.  
(Based on the Tomson-Oddo Model)

Westport Oil & Gas  
Helper

Brine 1 : Wellington Federal; No. 44-06 SWD  
Brine 2 : Wellington Federal; No. 22-04; Navajo  
Brine 3 : Wellington Federal; No. 22-04; Wingate

Sample Date	Comments
1-Oct-2005	ACID GASES RAN IN LAB
1-Oct-2005	ACID GASES RAN IN LAB
1-Oct-2005	ACID GASES RAN IN LAB

Component	Brines			Mixing Ratio as %									
	Brine 1	Brine 2	Brine 3	10	20	70	70	40	30	30	50	25	25
				20	10	20	10	30	40	30	25	50	25
Calcium, Ca <sup>2+</sup> mg/l	312	2,430	2,360	2,169	1,957	940	933	1,562	1,774	1,767	1,354	1,883	1,866
Magnesium, Mg <sup>2+</sup> mg/l	34	1,215	2,503	1,999	1,880	517	646	1,129	1,247	1,376	947	1,242	1,564
Barium, Ba <sup>2+</sup> mg/l	0	0	0	0	0	0	0	0	0	0	0	0	0
Strontium, Sr <sup>2+</sup> mg/l	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate, CO <sub>3</sub> <sup>-2</sup> mg/l	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate, HCO <sub>3</sub> <sup>-1</sup> mg/l	3,428	3,401	2,396	2,700	2,703	3,319	3,219	3,110	3,108	3,007	3,163	3,157	2,905
Sulfate, SO <sub>4</sub> <sup>-2</sup> mg/l	108	1,020	3,088	2,376	2,285	588	795	1,276	1,367	1,574	1,081	1,309	1,826
Chloride, Cl <sub>2</sub> mg/l	12,720	30,220	44,540	38,494	36,744	19,402	20,834	27,516	29,266	30,698	25,050	29,425	33,005
CO <sub>2</sub> in Brine mg/l	300	300	300	300	300	300	300	300	300	300	300	300	300
Ionic Strength	0.43	1.05	1.55	1.34	1.28	0.66	0.72	0.95	1.01	1.07	0.86	1.02	1.15
Temperature °F	85	85	85	85	85	85	85	85	85	85	85	85	85
Pressure psia	100	100	100	100	100	100	100	100	100	100	100	100	100

### Tomson-Oddo Saturation Index

Calcite; CaCO <sub>3</sub>	0.33	0.80	0.42	0.50	0.46	0.56	0.49	0.57	0.60	0.55	0.56	0.64	0.53
Gypsum; CaSO <sub>4</sub> -2H <sub>2</sub> O	N/A												
Hemihydrate; CaSO <sub>4</sub> -1/2H <sub>2</sub> O	N/A												
Anhydrite; CaSO <sub>4</sub>	N/A												
Barite; BaSO <sub>4</sub>	N/A												
Celestite; SrSO <sub>4</sub>	N/A												

### P(Pounds Per)T(Thousand)B(Barrels)

Calcite; CaCO <sub>3</sub>	127.9	921.3	427.2	526.1	474.7	436.9	389.0	570.8	630.0	573.2	531.7	681.8	554.4
Gypsum; CaSO <sub>4</sub> -2H <sub>2</sub> O	N/A												
Hemihydrate; CaSO <sub>4</sub> -1/2H <sub>2</sub> O	N/A												
Anhydrite; CaSO <sub>4</sub>	N/A												
Barite; BaSO <sub>4</sub>	N/A												
Celestite; SrSO <sub>4</sub>	N/A												

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>FEDERAL UTU-80560</b>
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>SWDW</u>	8. WELL NAME and NUMBER: <b>Wellington Federal 22-04 SWD</b>	
2. NAME OF OPERATOR: <b>WESTPORT OIL AND GAS COMPANY, L. P.</b>		9. API NUMBER: <b>43-007-30967</b>
3. ADDRESS OF OPERATOR: <b>1999 Broadway - Suite 3700 Denver, CO 80202</b>	PHONE NUMBER <b>(303) 296-3600</b>	10. FIELD AND POOL, OR WILDCAT: <b>Navajo</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1500' FWL, 2350' FNL, Lat 39.638939 Long: 110.696894</b>		COUNTY: <b>Carbon</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDAN: <b>SEnw Sec. 4, T14S-R11E S.L.B.&amp;M.</b>		STATE: <b>UTAH</b>

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

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

Attached please find the recorded pressure chart from the Mechanical Integrity Test run on the Wellington Federal 22-04 SWD well on 10/13/05. The well was tested to 1000 psi for 30 minutes and held ok. The test was witnessed by Mark Jones of the UDOGM.

WOGCLP Bond No.

NAME (PLEASE PRINT) <u>Kristi A. Stover</u>	TITLE <u>Senior Engineering Analyst</u>
SIGNATURE <u>Kristi A. Stover</u>	DATE <u>October 28, 2005</u>

(This space for State use only)

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**NOV 03 2005**  
DIV. OF OIL, GAS & MINING



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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>FEDERAL UTU-80560</b>
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1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>SWDW</u>	8. WELL NAME and NUMBER: <b>Wellington Federal 22-04 SWD</b>	
2. NAME OF OPERATOR: <b>WESTPORT OIL AND GAS COMPANY, L. P.</b>		9. API NUMBER: <b>43-007-30967</b>
3. ADDRESS OF OPERATOR: <b>1999 Broadway - Suite 3700 Denver, CO 80202</b>	PHONE NUMBER <b>(303) 296-3600</b>	10. FIELD AND POOL, OR WILDCAT: <b>Navaio</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1500' FWL, 2350' FNL, Lat 39.638939 Long: 110.696894</b>		COUNTY: <b>Carbon</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDAN: <b>SENW Sec. 4, T14S-R11E S.L.B.&amp;M.</b>		STATE: <b>UTAH</b>

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

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

Attached please find the recorded pressure chart from the Mechanical Integrity Test run on the Wellington Federal 22-04 SWD well on 10/13/05. The well was tested to 1000 psi for 30 minutes and held ok. The test was witnessed by Mark Jones of the UDOGM.

WOGCLP Bond No.

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SIGNATURE <u>Kristi A. Stover</u>	DATE <u>October 28, 2005</u>

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

5. LEASE DESIGNATION AND SERIAL NUMBER:

FEDERAL UTU-80560

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

**SUNDRY NOTICES AND REPORTS ON WELLS**

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OIL WELL  GAS WELL  OTHER SWDW

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Wellington Federal 22-04 SWD

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9. API NUMBER:  
43-007-30967

3. ADDRESS OF OPERATOR:  
1999 Broadway - Suite 3700 Denver, CO 80202

PHONE NUMBER  
(303) 296-3600

10. FIELD AND POOL, OR WILDCAT:  
Navajo

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 1500' FWL, 2350' FNL, Lat 39.638939 Long: 110.696894

COUNTY: Carbon

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDAN: SENW Sec. 4, T14S-R11E S.L.B.&M.

STATE: UTAH

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

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Attached please find the recorded pressure chart from the Mechanical Integrity Test run on the Wellington Federal 22-04 SWD well on 10/13/05. The well was tested to 1000 psi for 30 minutes and held ok. The test was witnessed by Mark Jones of the UDOGM.

WOGCLP Bond No.

NAME (PLEASE PRINT) Kristi A. Stover

TITLE Senior Engineering Analyst

SIGNATURE Kristi A. Stover

DATE October 28, 2005

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**From:** <BillMcKnab@aol.com>  
**To:** <chriskierst@utah.gov>, <markjones@utah.gov>  
**Date:** 11/09/2005 4:29:55 PM  
**Subject:** RAT Survey

Chris,

Attached is the recommended tracer survey procedure from the EPA.

The EPA requires that the survey be run at the operating injection pressure which in this well is about 850 psi at 8.3 bpm.

This is the same procedure ConocoPhillips uses for their annual RAT surveys.

As we discussed one survey will be run at a lower rate and a second run at 8.3 bpm.

The test is scheduled for approximately 9:00 AM on November 15, 2005. I also notified Mark by telephone.

Bill McKnab  
303-550-1274 (Cell)  
435-613-0752 (Price Office)  
435-613-0753 (Price Fax)  
303-462-1124 (Office)  
303-462-1416 (Fax)

**CC:** <rscott@kmg.com>, <MARKJONES@aol.com>



UNITED STATES  
ENVIRONMENTAL  
PROTECTION AGENCY  
REGION VIII

999 18th STREET, SUITE 500  
**RADIOACTIVE TRACER SURVEY**

January 22, 1999

**PURPOSE:**

The purpose of this document is to provide a guideline for the acquisition of a radioactive tracer survey (RATS), a procedure that may be used to determine whether injected fluids may migrate vertically outside the casing after injection. This guidance may be used to develop a well-specific survey plan that accounts for specific well construction and operation considerations. Prior approval of planned RATS procedures by EPA is strongly recommended.

Radioactive Tracer Survey results must be documented with service company and other appropriate log records and/or charts, and the test should be witnessed by an EPA inspector. Arrangements may be made by contacting EPA Region 8 Underground Injection Control (UIC) offices using the EPA toll-free number 1-800-227-8917 (ask for extension 6155 or 6137).

**RECORDING GUIDELINES**

The logging must be done while the well is **injecting at normal injection pressure and rate**. The pressure and rate should be brought to equilibrium conditions prior to conducting the survey.

The survey tool must **include a collar locator** for depth control, an injector, and two detectors (one above and one below the injector).

Vertical **log scale** may be one inch, two inches, or five inches per 100 feet.

The Gamma Ray log may be run at up to 60 feet per minute (ft/min) at a time constant (TC) of one second, or up to 30 ft/min at a TC of 2 seconds, or up to 15 ft/min at a TC of 4 seconds. **The logging speed and time constant used must be indicated on the log heading.**

The **horizontal log scale** must be recorded in standard API Units (or in counts per second).

The **gamma ray (GR) sensitivity** must be set so that the tracer will be obvious when detected and will not be confused with normal "hot spots" in the logged formations (e.g., the gamma ray sensitivity set so that the lithology can be correlated by recording a "base log").

**Record the beginning and ending clock times** of each log pass.

**Record the injection pressure and rate** during each log pass.

**Record the volume of fluid injected BETWEEN** log passes.

**Record the type, volume, and concentration** of each tracer "slug" used.

**Show the percentage of fluid loss** across the perforated interval(s).

**RECOMMENDED PROCEDURE:**

With the GR sensitivity set for the lithologic correlation log as outlined above, run one "base log" from the injection zone to at least 500 feet above the injection zone (or at least 200 feet above the top of the

confining zone).

Commence operating the well at normal operating injection pressure and rate, and continue to do so until the pressure and rate become stabilized.

Set the tool so that the injector is positioned just below the tubing packer and inject a "slug" of tracer.

Reduce the GR sensitivity enough to keep the entire slug of the tracer radiation within the width of the chart paper (horizontal scale). To do this, a non-recorded pass through the slug may be run.

Drop tool to an appropriate depth below the slug and record Log Pass #1. Log to above the upper interface until the radiation level returns to the same level as below the slug. Drop tool to the appropriate depth below the slug and record Log Pass # 2 in the same manner as #1.

Repeat log passes process until the tracer slug strength dissipates to one tenth (1/10) of original strength (on Log Pass #1). At this point, reset (increase) the GR sensitivity to the same settings used for the base log, and log from the injection zone to at least 500 feet above the injection zone (or at least 200 feet above the top of the confining zone).

Drop tool to an appropriate depth below the slug, reset (reduce) the GR sensitivity to that used for logging (same setting as Log Pass #1), and record a log pass up to the packer. Repeat this logging process until the tracer slug is gone or has completely stopped. Then reset (increase) the GR sensitivity back to the base log setting and make a final logging pass from the injection zone to at least 500 feet above the injection zone (or at least 200 feet above the top of the confining zone). This final pass should show a close similarity to the pre-test base log response. NOTE: More than one pass may be shown on a log segment as long as each separate GR curve with its corresponding collar locator are distinguishable, otherwise record each pass on a separate log segment.

Drop and set the tool at the depth where the bottom detector is just above the uppermost perforation and inject a slug of tracer (the tool remains stationary for this logging record). As the slug moves past the bottom detector, the log trace should show an increase in the GR response. Hold the tool at this depth while pumping at the equilibrium pressure and rate.

### **SUBMITTING THE RESULTS:**

An interpretation of the logging results must be supplied when submitting the data for EPA approval. The interpretation must include a fluid loss profile across the perforations, in increments of at least 25%

Include a schematic diagram of the well construction on or with the log. The diagram should show the casing diameters and depths, tubing diameter and depth, perforated interval, any open hole intervals, total depth or plugged back total depth, and the location of the tool when the slug was injected. Also, indicate with arrows the pathway(s) the tracer slug appears to have gone.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**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.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

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

2. Name of Operator  
**WESTPORT OIL AND GAS COMPANY, L. P.**

3a. Address  
**1999 Broadway-Suite 2370 Denver, CO 80202**

3b. Phone No. (include area code)  
**(303) 296-3600**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SENW 1500' FWL, 2350' FNL, Lat: 39.638939 Long: 110.696894**

5. Lease Serial No.  
**UTU-80560**

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
**Wellington Federal 22-04 SWD**

9. API Well No.  
**43-007-30967**

10. Field and Pool, or Exploratory Area  
**Navajo**

11. County or Parish, State  
**Sec. 4: T 14 S - R 11 E, S.L.B.&M.**

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

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

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

Westport Oil & Gas Company, L.P. respectfully wishes to inform the proper authorities of drilling activities for the above subjected well which spud on August 11, 2005 @ 12:00 p.m. RU Pete Martin Drilling, drilled and set 20" & 30" conductor pipe to 42' , RD. RU Bill Jr. Rathole Drilling, drilled and ran 13 5/8" surface casing set @ 624', RD. RU Caza rig #81 and drilled ahead to a depth of 2665'. Ran FDC/CNL & GR/DIL logs. Run and cement 9 5/8" J-55 ST&C casing, set at 2658' KB with 300 sx Hifill V followed w/260 sx Premium V. Continue drilling ahead to 6170', run and cement 7" 23# HCP-110 set @ 6166' Caza rig #81 released on August 26,2005 @ 12:00 p.m. Well is currently SI waiting on completion.

*7" cement ???  
Is it 13 3/8" or 13 5/8" ???*

Attached copies of drilling activities reports.

BLM Bond No. CO-1203 BLM Nationwide Bond 158626364

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

Name (Printed/Typed) <b>Kristi A. Stover</b>	Title <b>Senior Engineering Technician</b>
Signature <i>Kristi A. Stover</i>	Date <b>12/5/05</b>

**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	

**RECEIVED**

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.

**DEC 12 2005**



**Drilling Chronological  
Regulatory**

Well Name: WELLINGTON FEDERAL 22-04 SWD										
Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT					
Operator:	RT OIL AND GAS COMPA	Location Desc:	Proposed access road for well num	District:						
Project AFE:	105041D	AFEs Associated:								/ / /
Daily Summary										
Activity Date :	7/7/2005	Days From Spud :	0	Current Depth :	41 Ft	24 Hr. Footage Made :	41 Ft			
Rig Company :	PETE MARTIN DRILLING			Rig Name:	PETE MARTIN DRILLING					
Formation :										
Weather:										
Operations										
Start	Hrs	Code	Remarks				Start Depth	End Depth	Run	
12:00	18.00	21	MIRU BUCKET RIG, DIG 41' 30" CONDUCTOR, SET 42' OF 48# 20" CONDUCTOR PIPE				0	41	NIH	
Total:	18.00									
Daily Summary										
Activity Date :	7/8/2005	Days From Spud :	0	Current Depth :	41 Ft	24 Hr. Footage Made :	0 Ft			
Rig Company :	PETE MARTIN DRILLING			Rig Name:	PETE MARTIN DRILLING					
Formation :										
Weather:										
Operations										
Start	Hrs	Code	Remarks				Start Depth	End Depth	Run	
6:00	12.00	21	CEMENT CONDUCTOR PIPE, DIG RAT AND MOUSE HOLES, RIG DOWN, MOVE OFF				41	41	NIH	
18:00	12.00	24	LOCATION IDLE				41	41	NIH	
Total:	24.00									
Daily Summary										
Activity Date :	7/10/2005	Days From Spud :	0	Current Depth :	41 Ft	24 Hr. Footage Made :	0 Ft			
Rig Company :	BILL JR'S RATHOLE DRILLING			Rig Name:	BILL JR'S RATHOLE DRILLING					
Formation :										
Weather:										
Operations										
Start	Hrs	Code	Remarks				Start Depth	End Depth	Run	
12:00	18.00	21	MIRU AIR RIG, DRILLING 17-1/2 SURFACE HOLE				41	41	NIH	
Total:	18.00									
Daily Summary										
Activity Date :	7/11/2005	Days From Spud :	0	Current Depth :	650 Ft	24 Hr. Footage Made :	609 Ft			
Rig Company :	BILL JR'S RATHOLE DRILLING			Rig Name:	BILL JR'S RATHOLE DRILLING					
Formation :										
Weather:										
Operations										
Start	Hrs	Code	Remarks				Start Depth	End Depth	Run	
6:00	4.00	21	DRILLING 17-1/2" SURFACE HOLE TO 650 FT				41	650	NIH	
10:00	10.00	21	RIG REPAIR, HYDRAULIC SYSTEM				650	650	NIH	
20:00	3.00	21	L/D TUBULARS				650	650	NIH	
23:00	4.50	21	RUN CASING, 14 JTS 13-5/8 48# H-40 SURFACE CASING				650	650	NIH	
3:30	2.50	21	RIG UP CEMENTERS, CEMENT CASING, BUMP PLUG, FLOATS OKAY, R/D CEMENTERS				650	650	NIH	
Total:	24.00									

**Well Name: WELLINGTON FEDERAL 22-04 SWD**

Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT
Operator:	RT OIL AND GAS COMPA	Location Desc:	Proposed access road for well nur	District:	

**Daily Summary**

Activity Date :	8/7/2005	Days From Spud :	0	Current Depth :	650 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
20:30	9.50	01	RIG RELEASED FROM STATE 1022-321, RIG DOWN FOR RIG MOVE TO WELLINGTON FEDERAL 22-04 SWD 38 MAN HOURS FOR MOVE	650	650	NIH

Total: 9.50

**Daily Summary**

Activity Date :	8/8/2005	Days From Spud :	0	Current Depth :	650 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	24.00	01	RIG DOWN FOR MOVE TO WELLINGTON FEDERAL 22-04, MOVE FRONT END EQUIPMENT OUT, LOWER MAST, MOVE EQUIPMENT TO FACILITATE LOAD-OUT, 100% RIGGED DOWN, 0% MOVED, 90 MAN HOURS TODAY, 128 HOURS TOTAL	650	650	NIH

Total: 24.00

**Daily Summary**

Activity Date :	8/9/2005	Days From Spud :	0	Current Depth :	650 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	15.00	01	LOAD OUT TRUCKS, MOVING RIG TO WELLINGTON FEDERAL 22-04, 15 LOADS MOVED & RECEIVED AT NEW LOCATION, OFFLOAD DC'S, VARIOUS OTHER LOADS, 53% MOVED, 0% RIGGED UP	650	650	NIH
21:00	9.00	24	RIG IDLE, WAIT ON DAYLIGHT	650	650	NIH

Total: 24.00

**Daily Summary**

Activity Date :	8/10/2005	Days From Spud :	0	Current Depth :	650 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	24.00	01	RIGGING UP ON WELLINGTON FEDERAL 22-4, SET BOPS, SET MATS, SUB, MAST UP 1800 HRS, SET PITS, PUMPS, GEN SET, FUEL TANK, TRAILERS, 90% MOVED, 80% RIGGED UP, 152 MAN HOURS TODAY, 338 HRS MOVE TOTAL	650	650	NIH

Total: 24.00

**Well Name: WELLINGTON FEDERAL 22-04 SWD**

Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT
Operator:	RT OIL AND GAS COMPA	Location Desc:	roposed access road for well nur	District:	

**Daily Summary**

Activity Date :	8/11/2005	Days From Spud :	0	Current Depth :	650 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	CAZA			Rig Name :	CAZA 81		
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	14.00	01	RIGGING UP ON LOCATION, RIGGING UP WEATHERFORD AIR PACKAGE, FINISH NIPPLING UP BOPE, P/U SWIVEL, KELLY FOR BOP TEST	650	650	NIH
20:00	4.00	15	TEST BOPE, 250/1500 15 MINS EA, RIG ACCEPTED FOR DAYWORK 2000 HRS 8/10/2005	650	650	NIH
0:00	4.00	06	P/U BHA, 1 JT DP	650	650	1
4:00	1.50	15	TEST CASING 1380/15 MIN,	650	650	1
5:30	0.50	22	INSTALL ROTATING HEAD DRIVE ON KELLY	650	650	1
Total:	24.00					

**Daily Summary**

Activity Date :	8/12/2005	Days From Spud :	1	Current Depth :	701 Ft	24 Hr. Footage Made :	51 Ft
Rig Company :	CAZA			Rig Name :	CAZA 81		
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	06	P/U TUBULARS, RIH, TAG CEMENT @ 618'	650	650	1
7:00	7.00	01	HOOK UP BLOOEY LINE, FLARE LINE, CHOKE LINE, GAS BUSTER	650	650	1
14:00	1.50	05	HOLD SM WITH WEATHERFORD, TEST LINES TO 500 PSI, BLOW WATER OUT OF SURFACE PIPE	650	650	1
15:30	2.00	22	DRILL CEMENT	650	650	1
17:30	2.50	02	DRILL FORMATION	650	675	1
20:00	1.00	05	CLEAN HOLE, WORK TIGHT HOLE	675	675	1
21:00	1.00	06	POOH FOR HAMMER BIT	675	675	1
22:00	5.00	23	MODIFY HAMMER BIT BREAKER TO FIT TABLE	675	675	2
3:00	1.00	06	TRIP IN HOLE	675	675	2
4:00	0.50	03	REAM 45' TO TD, 15' FILL	675	675	2
4:30	0.50	05	DRY OUT HOLE FOR HAMMER BIT	675	675	2
5:00	1.00	02	DRILLING	675	701	2
Total:	24.00					

**Well Name: WELLINGTON FEDERAL 22-04 SWD**

Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT
Operator:	RT OIL AND GAS COMPA	Location Desc:	Proposed access road for well num	District:	

**Daily Summary**

Activity Date :	8/13/2005	Days From Spud :	2	Current Depth :	2146 Ft	24 Hr. Footage Made :	1445 Ft
Rig Company :	CAZA	Rig Name:	CAZA 81				
Formation :	Ferron Coal	Weather:					

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	9.00	02	DRILLING FROM 701' TO 1171'. ( 470' @ 52.2 FPH )	701	1171	2
15:00	0.50	07	RIG SERVICE.	1171	1171	2
15:30	5.00	02	DRILLING FROM 1171' TO 1577'. ( 406' @ 81.2 FPH )	1171	1577	2
20:30	0.50	07	RIG SERVICE.	1577	1577	2
21:00	1.00	08	CHANGE OUT SWIVEL PACKING.	1577	1577	2
22:00	8.00	02	DRILLING FROM 1577' TO 2146'. ( 569' @ 71.1 FPH )	1577	2146	2
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2146		0.00	0.00	0	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	DRILLING W/ AIR HAMMER											

**Daily Summary**

Activity Date :	8/14/2005	Days From Spud :	3	Current Depth :	2665 Ft	24 Hr. Footage Made :	519 Ft
Rig Company :	CAZA	Rig Name:	CAZA 81				
Formation :	Dakota	Weather:					

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7.00	02	DRILLING FROM 2146' TO 2665'. ( 519' @ 74.1 FPH )	2146	2665	2
13:00	2.00	05	CIRCULATE TO CLEAN HOLE.	2665	2665	2
15:00	4.50	06	TRIP OUT FOR BIT.	2665	2665	2
19:30	1.50	06	LAY DOWN HAMMER, & RIH W/ TRI-CONE BIT.	2665	2665	2
21:00	0.50	08	REPAIR PIPE SPINNER OIL LINE.	2665	2665	NIH
21:30	1.00	06	TRIP IN TAG @ 2595'.	2665	2665	NIH
22:30	3.00	03	REAMING W/ AIR. COULD NOT MAKE ANY PROGRESS.	2665	2665	NIH
1:30	0.50	05	CIRCULATE HOLE W/ MUD.	2665	2665	NIH
2:00	4.00	03	REAMING FROM 2595' TO 2665'.	2665	2665	NIH
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2146		0.00	0.00	0	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	DRILLING W/ AIR HAMMER											

**Well Name: WELLINGTON FEDERAL 22-04 SWD**

Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT
Operator:	RT OIL AND GAS COMPA	Location Desc:	roposed access road for well nur	District:	

**Daily Summary**

Activity Date :	8/15/2005	Days From Spud :	4	Current Depth :	2665 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :	Dakota			Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.50	05	CIRCULATE TO CONDITION FOR LOGS.	2665	2665	3
7:30	1.50	06	TRIP OUT TO LOG.	2665	2665	3
9:00	6.00	11	RIG UP LOGGERS, RIH & LOD WELL. LOGS ON BOTTOM @ 1030. LOGGERS T.D.: 2637'. DRILLERS T.D.: 2665'.	2665	2665	3
15:00	3.00	06	TRIP IN TO CONDITION. TAG @ 2620'.	2665	2665	3
18:00	0.50	03	REAM 45' TO BOTTOM.	2665	2665	3
18:30	3.50	05	CIRCULATE TO CLEAN HOLE & CONDITION MUD.	2665	2665	3
22:00	2.00	06	TRIP OUT TO RUN CASING.	2665	2665	3
0:00	0.50	21	RIG UP CASERS.	2665	2665	3
0:30	0.50	08	REPAIR FLOW LINE VALVE.	2665	2665	3
1:00	4.00	12	RUN 61 jts, 9.625", 40#, J-55, ST&C CASING = 2668.72'. CASING SET @ 2657.72' K.B.	2665	2665	3
5:00	1.00	05	CIRCULATE TO CONDITION FOR CEMENT.	2665	2665	3
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2665		8.50	0.00	43	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0												

**Daily Summary**

Activity Date :	8/16/2005	Days From Spud :	5	Current Depth :	2665 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :	Dakota			Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.50	12	CEMENT CASING W/ 300 SACKS HIFILL "V" FOLLOWED W/ 260 SACKS PREMIUM "V". HAD FULL RETURNS THROUGH OUT JOB W/ APPROXIMATELY 45 bbls / 68 sacks CEMENT TO THE PIT. BUPM PLUG TO 1200 psi. FLOAT HELD.	2665	2665	3
8:30	8.00	21	NIPPLE DOWN HYDRILL & SET SLIPS W/ PIPE IN FULL TENSION. ( 90000 # ).	2665	2665	3
16:30	7.00	14	NIPPLE UP & TEST * B * SECTION. NIPPLE UP BOP & EQUIPMENT.	2665	2665	3
23:30	3.50	15	TEST BOP & EQUIPMENT TO 250 LOW & 3000 HIGH. TEST CASING TO 3000 psi.	2665	2665	3
3:00	0.50	22	INSTALL WEAR BUSHING.	2665	2665	3
3:30	2.50	06	PICK UP BIT & SIX COLLARS & TRIP IN HOLE.	2665	2665	4
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2665		8.50	0.00	43	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0												

**Well Name: WELLINGTON FEDERAL 22-04 SWD**

Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT
Operator:	RT OIL AND GAS COMPA	Location Desc:	Proposed access road for well num	District:	

**Daily Summary**

Activity Date :	8/17/2005	Days From Spud :	6	Current Depth :	3150 Ft	24 Hr. Footage Made :	485 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :	Morrison			Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.50	06	TRIP IN W/ BIT. LAY DOWN BENT DRILL PIPE. TOTAL OF 11 DOWN.	2665	2665	4
9:30	1.00	02	DRILL CEMENT FROM 2575' TO 2600'.	2665	2665	4
10:30	0.50	07	RIG SERVICE.	2665	2665	4
11:00	1.00	02	DRILL CEMENT & SHOE FROM 2600' TO 2665'.	2665	2665	4
12:00	0.50	21	DRY UP DRILL STRING.	2665	2665	4
12:30	3.50	02	DRILLING FROM 2665' TO 2887'. ( 222' @ 63.4 FPH )	2665	2887	4
16:00	0.50	10	SURVEY @ 2838' - .45 deg. ( WIRE LINE )	2887	2887	4
16:30	1.00	02	DRILLING FROM 2887' TO 2929'. ( 32' @ FPH )	2887	2929	4
17:30	4.50	06	TRIP OUT, PICK UP HAMMER & TRIP IN..	2929	2929	5
22:00	8.00	02	DRILLING FROM 2929' TO 3150'. ( 221' @ 27.6 FPH )	2929	3150	5
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2665		8.50	0.00	43	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	DRILL W/ AIR.											

**Daily Summary**

Activity Date :	8/18/2005	Days From Spud :	7	Current Depth :	3830 Ft	24 Hr. Footage Made :	680 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :	Sumerville			Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	02	DRILLING FROM 3150' TO 3156'. ( 6' @ 12 FPH )	3150	3156	5
6:30	0.50	05	BLOW HOLE CLEAN.	3156	3156	5
7:00	5.00	06	TRIP OUT FOR HAMMER, CHANGE OUT HAMMERS, & TRIP IN..	3156	3156	5
12:00	1.00	21	WORK BIT ON BOTTOM.	3156	3156	5
13:00	4.50	02	DRILLING FROM 3156' TO 3363'. ( 207' @ 46 FPH )	3156	3363	5
17:30	0.50	10	SURVEY @ 3310' - .83 deg. ( WIRELINE )	3363	3363	5
18:00	12.00	02	DRILLING FROM 3363' TO 3830'. ( 467' @ 38.9 FPH )	3363	3830	5
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
3150		8.50	0.00	43	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	DRILL W/ AIR.											

**Well Name: WELLINGTON FEDERAL 22-04 SWD**

Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT
Operator:	RT OIL AND GAS COMPA	Location Desc:	roposed access road for well nun	District:	

**Daily Summary**

Activity Date :	8/19/2005	Days From Spud :	8	Current Depth :	5077 Ft	24 Hr. Footage Made :	1247 Ft
Rig Company :	CAZA	Rig Name:	CAZA 81				
Formation :	Carmel	Weather:					

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.50	02	DRILLING FROM 3830' TO 3953'. ( 123' @ 82 FPH )	3830	3953	5
7:30	0.50	10	SURVEY @ 3900' - 1.69 deg. ( WIRELINE )	3953	3953	5
8:00	2.50	02	DRILLING FROM 3953' TO 4110'. ( 157' @ 62.8 FPH )	3953	4110	5
10:30	0.50	07	RIG SERVICE & CHANGE OUT ROTATING RUBBERS.	4110	4110	5
11:00	5.50	02	DRILLING FROM 4110' TO 4455'. ( 354' @ 62.7 FPH )	4110	4455	5
16:30	0.50	10	SURVEY @ 4904' - 2.28 deg. ( WIRELINE )	4455	4455	5
17:00	10.00	02	DRILLING FROM 4455' TO 4956'. ( 501' @ 50.1 FPH )	4455	4956	5
3:00	0.50	10	SURVEY @ 4904' - .98 deg. ( WIRELINE )	4956	4956	5
3:30	2.50	02	DRILLING FROM 4956' TO 5077'. ( 121' @ 48.4 FPH )	4956	5077	5
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
3830		8.50	0.00	43	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	DRILL W/ AIR.											

**Daily Summary**

Activity Date :	8/20/2005	Days From Spud :	9	Current Depth :	5537 Ft	24 Hr. Footage Made :	460 Ft
Rig Company :	CAZA	Rig Name:	CAZA 81				
Formation :	Navajo	Weather:					

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.50	02	DRILLING FROM 5077' TO 5156'. ( 79' @ 52.7 FPH )	5077	5156	5
7:30	0.50	05	CIRCULATE HOLE CLEAN.	5156	5156	5
8:00	1.50	06	TRIP BIT INTO CASING SHOE.	5156	5156	5
9:30	1.50	21	REPAIR BLOOIE LINE. ( WELDED HOLE BY SHAKER. )	5156	5156	5
11:00	1.00	06	TRIP IN.	5156	5156	5
12:00	3.00	02	DRILLING FROM 5156' TO 5267'. ( 111' @ 37 FPH )	5156	5267	5
15:00	0.50	07	RIG SERVICE.	5267	5267	5
15:30	3.00	02	DRILLING FROM 5267' TO 5454'. ( 187' @ 62.3 FPH )	5267	5454	5
18:30	0.50	10	SURVEY @ 5401' - .68 deg. ( WIRELINE )	5454	5454	5
19:00	2.00	02	DRILLING FROM 5454' TO 5537'. ( 83' @ 41.5 FPH ) PRESSURE & WATER INCREASED AT BLOOIE LINE APPEARS TO HAVE A WATER ZONE @ 5537'.	5454	5537	5
21:00	0.50	06	TRIP OUT FOR BIT. GOT 5 JOINTS DRILL PIPE & KELLY OUT WHEN PIPE STUCK.	5537	5537	5
21:30	8.50	21	DISPLACE HOLE W/ DRILLING MUD. WORK STUCK PIPE. PIPE FREED UP. PULL 2 SINGLES & 1- STAND.	5537	5537	5
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5077		8.50	0.00	43	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	DRILL W/ AIR.											

**Well Name: WELLINGTON FEDERAL 22-04 SWD**

Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT
Operator:	RT OIL AND GAS COMPA	Location Desc:	roposed access road for well num	District:	

**Daily Summary**

Activity Date :	8/21/2005	Days From Spud :	10	Current Depth :	5620 Ft	24 Hr. Footage Made :	83 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :	Kayenta			Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.25	21	WORK STUCK PIPE. POOH W/ 3 STANDS WHEN PIPE STUCK AGAIN. WORK PIPE. PIPE STARTED MOVING AGAIN.	5537	5537	5
10:15	6.75	06	TRIP OUT. WORKING PIPE OUT OF HOLE. PIPE FREE @ 4200'. TRIP OUT. PIPE WET. FOUND BIT SUB & FLOAT ON TOP OF HAMMER FULL OF SCALE FROM DRILL PIPE.	5537	5537	5
17:00	2.50	06	PICK UP BIT & MUD MOTOR & TRIP IN.	5537	5537	5
19:30	0.50	08	REPLACE FLOW LINE VALVE.	5537	5537	5
20:00	1.50	06	TRIP IN.	5537	5537	5
21:30	2.50	03	WASH FROM 5230' TO 5537'.	5537	5537	5
0:00	6.00	02	DRILLING FROM 5537' TO 5620'. ( 83' @ 13.8 FPH )	5537	5620	6
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5537		8.50	0.00	43	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	MUD UP @ 5537' DUE TO WATER.											

**Daily Summary**

Activity Date :	8/22/2005	Days From Spud :	11	Current Depth :	5948 Ft	24 Hr. Footage Made :	328 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :	Windgate			Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	9.00	02	Drilling	5620	5818	6
15:00	0.50	07	Rig Service	5818	5818	6
15:30	13.50	02	Drilling	5818	5948	6
5:00	1.00	05	Condition Hole for Short Trip & Logs	5948	5948	6
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5620		8.50	0.00	43	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	MUD UP @ 5537' DUE TO WATER.											

**Well Name: WELLINGTON FEDERAL 22-04 SWD**

Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT
Operator:	RT OIL AND GAS COMPA	Location Desc:	roposed access road for well nur	District:	

**Daily Summary**

Activity Date :	8/23/2005	Days From Spud :	12	Current Depth :	5974 Ft	24 Hr. Footage Made :	26 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.50	05	Circulate and condition for logs	5948	5948	6
10:30	3.00	06	TOH for logs - SLM = 5946'	5948	5948	6
13:30	0.50	21	Pull Wear Bushing	5948	5948	6
14:00	7.00	11	RU loggers - Log - 1miss run	5948	5948	6
21:00	3.00	21	RD loggers - PU & test Motor - WO Tools	5948	5948	6
0:00	3.50	06	TIH - Fill at 2650'	5948	5948	7
3:30	2.50	02	Drilling	5948	5974	7
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5948		8.50	0.00	43	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	MUD UP @ 5537' DUE TO WATER.											

**Daily Summary**

Activity Date :	8/24/2005	Days From Spud :	13	Current Depth :	6141 Ft	24 Hr. Footage Made :	167 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :	Windgate			Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	10.00	02	Drilling	5974	6040	7
16:00	0.50	08	Rig Repair	6040	6040	7
16:30	2.50	02	Drilling	6040	6067	7
19:00	0.50	07	Rig Service	6067	6067	7
19:30	10.50	02	Drilling	6067	6141	7
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5974		9.00	0.00	45	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	MUD UP @ 5537' DUE TO WATER.											

**Well Name: WELLINGTON FEDERAL 22-04 SWD**

Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT
Operator:	RT OIL AND GAS COMPA	Location Desc:	Proposed access road for well nur	District:	

**Daily Summary**

Activity Date :	8/25/2005	Days From Spud :	14	Current Depth :	6170 Ft	24 Hr. Footage Made :	29 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	02	Drilling	6141	6170	7
8:00	2.00	05	Condition Hole for Short Trip	6170	6170	7
10:00	1.00	06	Short trip 10 Stands	6170	6170	7
11:00	2.00	05	Condition Hole For Logs	6170	6170	7
13:00	4.00	06	TOH for Logs	6170	6170	7
17:00	5.00	11	Log	6170	6170	7
22:00	4.00	06	Trip in Hole	6170	6170	7
2:00	1.50	05	Circulate to LD DP and run casing	6170	6170	7
3:30	2.50	06	Lay down Drill Pipe	6170	6170	7
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6141		9.00	0.00	45	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	MUD UP @ 5537' DUE TO WATER.											

**Daily Summary**

Activity Date :	8/26/2005	Days From Spud :	15	Current Depth :	6170 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.50	06	LD DP	6170	6170	NIH
8:30	7.00	12	Rig up - Run 7" casing - Rig down	6170	6170	NIH
15:30	7.50	05	Loose Circulation - Build Volume Circulate LCM	6170	6170	NIH
23:00	4.00	12	Rig up - Cement Casing W/ Halliburton	6170	6170	NIH
3:00	1.00	21	Set Casing Slips with 145,000#	6170	6170	NIH
4:00	2.00	21	Break Stack to cut off - Clean Tanks	6170	6170	NIH
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
0		0.00	0.00	0	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	MUD UP @ 5537' DUE TO WATER.											

**Well Name: WELLINGTON FEDERAL 22-04 SWD**

Field Name:	HELPER	S/T/R:	04/14S/11E	County, State:	CARBON, UT
Operator:	RT OIL AND GAS COMPA	Location Desc:	roposed access road for well nur	District:	

**Daily Summary**

Activity Date :	8/27/2005	Days From Spud :	16	Current Depth :	6170 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	CAZA			Rig Name:	CAZA 81		
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	6.00	21	Clean tanks Etc	6170	6170	NIH
12:00	18.00	01	Release Rig @ 12:00 8/26/2005	6170	6170	NIH
Total:	24.00					

**Mud Properties**

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6170		0.00	0.00	0	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	MUD UP @ 5537' DUE TO WATER.											

**Formation**

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Elec Top	Comments

**Casing**

DateIn	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
7/10/2005	624.3	14	3. Surface	13.375	48	H-40	0	17.5	650
Stage: 1, Lead, 0, 600, PREM G, 2% CACL2, 1/4#/SK FLOCELE, 1% GEL, Class G, 1.15, 15.8									
8/15/2005	2657.72	61	4. Intermediate	9.625	40	J-55	0	12.25	2665
Stage: 1, Spacer, 10, 0, FRESH WATER, , 0, 0									
Stage: 1, Wash, 20, 0, SUPERFLUSH, , 0, 0									
Stage: 1, Spacer, 10, 0, FRESH WATER, , 0, 0									
Stage: 1, Lead, 0, 300, 16% Gel, 3% salt, .6% Ex-1, 1% HR-7, & .25#/sack Flocele, Halliburton Hifill, 3.84, 11									
Stage: 1, Tail, 0, 260, 10% Cal-Seal, 1% CACL2, & .25#/ sack Flocele, Premium Type " V ", 1.61, 14.2									
Stage: 1, Displacement, 195, 0, FRESH WATER, , 0, 0									
8/19/2005	5944.45	136	5. Production	7	23	HCP-110	0	8.75	5946

*Cement >>>*

Westport 22-4  
 Date of 1st Injection  
 11/19/05

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

UIC FORM 3

MONTHLY INJECTION REPORT

Operator: Westport Oil & Gas Co LP  
 Address: 1999 Broadway, Suite 3700  
 city Denver  
 state CO zip 80202

*1st injection*

Report Period: Nov-2005  
 Phone Number: (720) 264-2675  
 Amended Report  (highlight changes)

Well Name and Number <b>Wellington Fed 22-04 SWD</b>	API Number <b>4300730967</b>
Location of Well Footage: <b>On Line 11-18-2005</b>	Field or Unit Name <b>Helper</b>
County: <b>CARBON</b>	Lease Designation and Number <b>14826</b>
QQ, Section, Township, Range: <b>SENE 4 14S 11E</b>	State: <b>UTAH</b>

Date	Volume Disposed	Hours in Service	Maximum Pressure	Average Operating Pressure	Tubing / Casing Annulus Pressure
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	0	0	0	0	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	2,843	24	910	600	0
20	2,904	24	910	600	0
21	1,590	24	910	560	0
22	2,095	24	910	580	0
23	2,475	24	910	590	0
24	1,697	24	910	550	0
25	3,004	24	910	620	0
26	2,328	24	910	590	0
27	2,612	24	910	630	0
28	3,972	24	910	720	0
29	2,832	24	910	620	0
30	2,920	24	910	690	0
31					

Total volume injected for month 31,272

All time cumulative volume injected 31,272

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

Name (Please Print) James Cleere

Title Engineering Analyst

Signature *James Cleere*

Date 12/12/2005

**RECEIVED**

**DEC 14 2005**

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**UTU-80560**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
**Wellington Fed. 22-04 SWD**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER **SWD**

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

2. NAME OF OPERATOR:  
**Westport Oil and Gas Company, L. P.**

3. ADDRESS OF OPERATOR: **1999 Broadway, Ste 370C** CITY **Denver** STATE **CO** ZIP **80202** PHONE NUMBER: **(303) 296-3600**

9. API NUMBER:  
**4300730967**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **1500' FWL, 2350' FNL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW: **same**  
AT TOTAL DEPTH: **same**

10. FIELD AND POOL, OR WILDCAT  
**Helper Field**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SENW 4 14S 11E**

12. COUNTY  
**Carbon**

13. STATE  
**UTAH**

14. DATE SPUNDED: **8/11/2005** 15. DATE T.D. REACHED: **8/24/2005** 16. DATE COMPLETED: **11/18/2005** ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**5877' GL**

18. TOTAL DEPTH: MD **6,170** TVD \_\_\_\_\_ 19. PLUG BACK T.D.: MD **5,920** TVD \_\_\_\_\_ 20. IF MULTIPLE COMPLETIONS, HOW MANY? \*  
**N/A**

21. DEPTH BRIDGE MD \_\_\_\_\_ PLUG SET: TVD \_\_\_\_\_

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**DIL/GR & CNDL w/GR, CBL/CCL**

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
24"	20" <b>13 3/8</b>		0	42					
17 1/2"	13 3/4 <b>H40</b>	48	0	624		ClassG 600			
12.25	9 5/8 <b>J55</b>	40	0	2,658		HifiV 560			
8.75	7" <b>P110</b>	23	0	6,166		50/50 <b>Poz</b> 980			

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3.5	5,354							

**26. PRODUCING INTERVALS**      **27. PERFORATION RECORD**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
	See attached for perforation and acid information.

**29. ENCLOSED ATTACHMENTS:**      **30. WELL STATUS:**

ELECTRICAL/MECHANICAL LOGS       GEOLOGIC REPORT       DST REPORT       DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION       CORE ANALYSIS       OTHER: \_\_\_\_\_

**Disposal**

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 11/18/2005		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in Item #26)

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

INTERVAL C (As shown in Item #26)

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

INTERVAL D (As shown in Item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Bentonite	1,909
				Ferron	1,981
				Tununk Shale	2,274
				Dakota	2,505
				Carmel	4,975
				Navaio	5,497
				Windgate	5,880

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) Kristi A. Stover TITLE Sr. Engineering Technician  
 SIGNATURE *Kristi A. Stover* DATE 2/13/2006

This report must be submitted within 30 days of

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

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

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

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340  
 1594 West North Temple, Suite 1210  
 Box 145801 Fax: 801-359-3940  
 Salt Lake City, Utah 84114-5801

**Wellington Federal 22-04 SWD**  
**API No. 43-007-30967**

**Perforations**  
4" casing gun

Wingate  
5881' - 5924' 43' - 172 holes  
5934' - 5946' 12' - 48 holes  
5959' - 5971' 12' - 48 holes  
Total 67' - 268 holes

Navajo  
5521' - 5543' 22' - 88 holes  
5572' - 5639' 67' - 268 holes  
5644' - 5792' 148' - 592 holes  
5806' - 5837' 31' - 124 holes  
Total 268' - 1072 holes

Acidize Wingate  
Acid: 3000 gals 15% HCl, 1500 gals 10# Brine with 2700 lbs of TLC-W3 diverter in  
3 equal stages.  
Average Pressure: 3000 psi  
Average Rate: 9.5 bpm

Acidize Navajo  
Acid: 12000 gals 15% HCl, 5000 gals 10# Brine w/9000 lbs TLC-W3 diverter in  
5 equal stages  
Average Pressure: 3500 psi  
Average Rate: 10.5 bpm



Kerr-McGee Oil & Gas OnShore LP  
1999 Broadway, Suite 3700, Denver, Colorado 80202  
303-296-3600 • Fax 303-296-3601

March 24, 2006

Mr. Chris Kierst  
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: Completion Report & Radioactive Tracer Log  
Wellington Federal 22-04 SWDW  
SE/4,NW/4 Section 4 T14S-R11E  
Carbon County, Utah

Dear Chris:

Please find enclosed copies of the completion report and radioactive tracer log for the Wellington Federal 22-04 SWDW.

If you have any questions or require additional information, please call me at 720-264-2790 (office) or 303-916-6206 (cell). Thank you for your assistance in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Reed Scott', written over a circular stamp or mark.

Reed Scott  
Senior Engineering Specialist

Enclosures

**MAR 28 2006**

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

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

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**UTU-80560**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
**Wellington Fed. 22-04 SWD**

2. NAME OF OPERATOR:  
**Westport Oil and Gas Company, L. P.**

9. API NUMBER:  
**4300730967**

3. ADDRESS OF OPERATOR:  
**1999 Broadway, Ste 370C** CITY **Denver** STATE **CO** ZIP **80202**

PHONE NUMBER:  
**(303) 296-3600**

10. FIELD AND POOL, OR WILDCAT  
**Helper Field**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **1500' FWL, 2350' FNL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW: **same**  
AT TOTAL DEPTH: **same**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SENW 4 14S 11E**

12. COUNTY: **Carbon** 13. STATE: **UTAH**

14. DATE SPUNDED: **8/11/2005** 15. DATE T.D. REACHED: **8/24/2005** 16. DATE COMPLET: **11/18/2005**

17. ELEVATIONS (DF, RKB, RT, GL):  
**5877' GL**

18. TOTAL DEPTH. MD **6,170** TVD \_\_\_\_\_

19. PLUG BACK T.D.: MD **5** TVD \_\_\_\_\_

ODUCE

HOW MANY? \*

21. DEPTH BRIDGE MD \_\_\_\_\_ PLUG SET: TVD \_\_\_\_\_

*This document is in error for casing (surface) size it should be 13 3/8".  
3/29/06  
Doc will be resubmitted*

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**DIL/GR & CNDL w/GR, CBL/CCL**

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
24"	20"	<del>13 5/8</del> <b>13 3/8</b>	0	42					
17 1/2"	13 5/8 H40	48	0	624		ClassG 600			
12.25	9 5/8 J55	40	0	2,658		HifiIV 560			
8.75	7" P110	23	0	6,166		50/50 980			
	P110					L 50/50 Poz			

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3.5	5,354							

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

**27. PERFORATION RECORD**

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
	See attached for perforation and acid information.

**29. ENCLOSED ATTACHMENTS:**

ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER \_\_\_\_\_

**30. WELL STATUS:**

**Disposal**

**MAR 28 2006**

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**UTU-80560**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
**Wellington Fed. 22-04 SWD**

9. API NUMBER:  
**4300730967**

10. FIELD AND POOL, OR WLD/CAT  
**Helper Field**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SE NW 4 14S 11E**

12. COUNTY  
**Carbon**

13. STATE  
**UTAH**

14. DATE SPUDDED: **8/11/2005**

15. DATE T.D. REACHED: **8/24/2005**

16. DATE COMPLETED: **11/18/2005**

ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**5877' GL**

18. TOTAL DEPTH: MD **6,170** TVD

19. PLUG BACK T.D.: MD **5,920** TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*  
**N/A**

21. DEPTH BRIDGE MD  
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**DIL/GR & CNDL w/GR, CBL/CCL**

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
24"	20"	<del>13 5/8</del> <b>13 3/8</b>	0	42					
17 1/2"	13 5/8 H40	48	0	624		ClassG 600			
12.25	9 5/8 J55	40	0	2,658		HifiIV 560			
8.75	7" P110	23	0	6,166		50/50 <b>Poz</b>			
	P110								

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3.5	5,354							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
	See attached for perforation and acid information.

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS     GEOLOGIC REPORT     DST REPORT     DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION     CORE ANALYSIS     OTHER \_\_\_\_\_

30. WELL STATUS:  
**Disposal**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 11/18/2005		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Bentonite	1,909
				Ferron	1,981
				Tununk Shale	2,274
				Dakota	2,505
				Carmel	4,975
				Navaio	5,497
				Windgate	5,880

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) Kristi A. Stover

TITLE Sr. Engineering Technician

SIGNATURE Kristi A. Stover

DATE 2/13/2006

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340  
Fax: 801-359-3940

**Wellington Federal 22-04 SWD**

**API No. 43-007-30967**

**Perforations**

4" casing gun

Wingate

5881' - 5924' 43' - 172 holes

5934' - 5946' 12' - 48 holes

5959' - 5971' 12' - 48 holes

Total 67' - 268 holes

Navajo

5521' - 5543' 22' - 88 holes

5572' - 5639' 67' - 268 holes

5644' - 5792' 148' - 592 holes

5806' - 5837' 31' - 124 holes

Total 268' - 1072 holes

Acidize Wingate

Acid: 3000 gals 15% HCl, 1500 gals 10# Brine with 2700 lbs of TLC-W3 diverter in 3 equal stages.

Average Pressure: 3000 psi

Average Rate: 9.5 bpm

Acidize Navajo

Acid: 12000 gals 15% HCl, 5000 gals 10# Brine w/9000 lbs TLC-W3 diverter in 5 equal stages

Average Pressure: 3500 psi

Average Rate: 10.5 bpm

**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>SWD Injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-80560</b>
2. NAME OF OPERATOR: <b>Kerr-McGee Oil and Gas Onshore LP</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
3. ADDRESS OF OPERATOR: 1999 Broadway Suite 3700    CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		7. UNIT or CA AGREEMENT NAME:  
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>1500' FWL and 2350' FNL</u>  QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>SE NW 4 14S 11E</u>		8. WELL NAME and NUMBER: <b>Wellington Federal 22-04 SWD</b>
 		9. API NUMBER: <b>4300730967</b>
 		10. FIELD AND POOL, OR WILDCAT: <b>Helper</b>
 		COUNTY: <b>Carbon</b>  STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> <small>(Submit in Duplicate)</small> Approximate date work will start: <u>3/19/2007</u>	<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>Step-Rate Test</u>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> <small>(Submit Original Form Only)</small> Date of work completion:			

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

Procedure for Step-Rate Test in the Navajo and Wingate formations. See attached wellbore diagram for more information.

1. Stop injecting, RIH w/ Tefteller downhole pressure gauges to mid-perf @ 5746'.
2. Begin pumping produced water down 3.5" 9.2#/ft J-55 tbg. Step-length = 20 min. Step-increment=0.5 bpm. First Step=0.5 bpm. Last Step=12 bpm.
3. If no break is seen, continue increasing rate until break is seen and pump three (3) rate above the parting point.
4. Total pump time = 8 hrs. Total injected water = 3000 bbls (if last step is 12 bpm)
5. Stop pumping and shut well in for a minimum of 24 hrs for pressure fall-off test.
6. POOH w/ downhole pressure gauges.
7. Return well to injection

Estimated date of work is the week of March 19, 2007.

Approved by the  
Utah Division of  
Oil, Gas and Mining

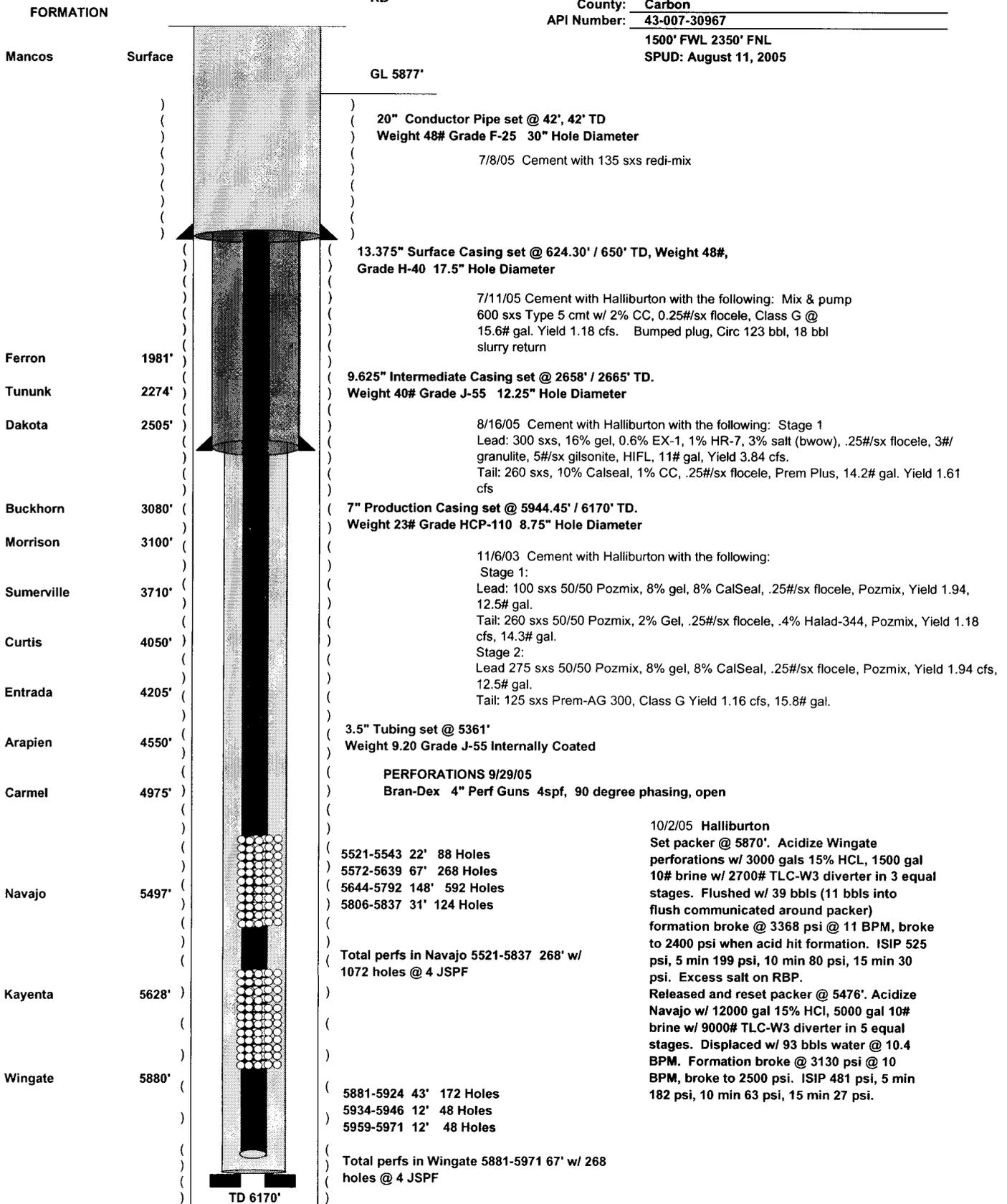
Date: 3/5/07  
By: D. Juan

APPROVED TO OPERATE  
3-6-07  
Rm

NAME (PLEASE PRINT) <u>Matthew Peloquin</u> SIGNATURE	TITLE <u>Production Engineer</u> DATE <u>2/22/2007</u>
--	---

# WELLBORE DIAGRAM

**Operator:** WESTPORT OIL AND GAS COMPANY, L. P.  
**Well Name:** WELLINGTON FEDERAL 22-4 SWD  
**Lease Serial No.:** UTU-80560  
**Location:** Sec. 4: T 14 S - R 11 E SENW  
**Field:** Helper  
**County:** Carbon  
**API Number:** 43-007-30967



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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-80560</b>
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: <b>N/A</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>SWD Injection</u>		7. UNIT or CA AGREEMENT NAME: <b>N/A</b>
2. NAME OF OPERATOR: <b>Kerr-McGee Oil &amp; Gas Onshore, LP</b>		8. WELL NAME and NUMBER: <b>Wellington Fed 22-04 SWD</b>
3. ADDRESS OF OPERATOR: 1099 18th Street #1200    CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>	PHONE NUMBER: <b>(303) 252-6226</b>	9. API NUMBER: <b>4300730967</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1500 FWL    2350 FNL</b>		10. FIELD AND POOL, OR WILDCAT: <b>Cardinal Draw</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENW 4    14S 11E</b>		COUNTY: <b>Carbon</b>
		STATE: <b>UTAH</b>

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

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

1. 3/20/2007 Stop injecting. RIH w/ Tefteller tandem electronic downhold pressure gauges to mid-perf @ 5747' kb, land @ 08:12 hours.

2. Begin pumping produced brine down 3.5" 9.3#/ft J-55 internally plastic coated tbg. Establish circulation @ 0.93 bpm 141 psi pump pressure. Step rate up @ 0.5 bpm increments, 20 minute step-length to 13.31 bpm & 2180 psi pump pressure. Pump total of 2498 bbls of produced brine. SWI for 24 hr presure fall-off test. Data as follows:

Parting pressure = matrix fracture not obtained  
Fracture pressure = 3050 psi (0.53 psi/ft) @ 12.6 bpm rate  
Surface pressure = 1929 @ 12.6 bpm rate

3. 3/21/2007 16:54 hrs Pull off bottom with tandem electronic gauges, POH and returned well to injection.

**RECEIVED**  
**JUL 18 2007**

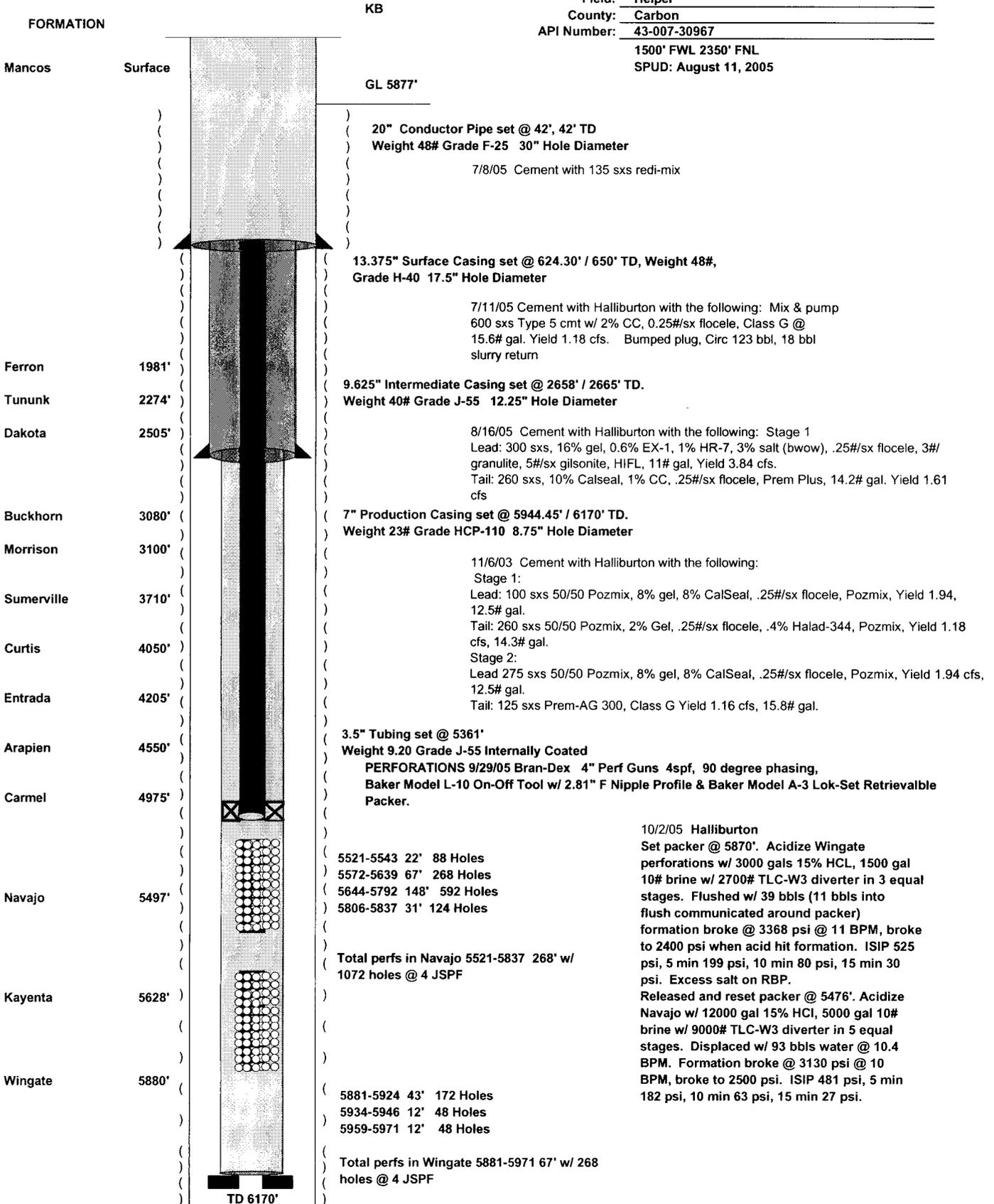
DIV OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Kevin McIntyre</u>	TITLE <u>Permitting Specialist</u>
SIGNATURE <u></u>	DATE <u>7-18-07</u>

(This space for State use only)

# WELLBORE DIAGRAM

**Operator:** WESTPORT OIL AND GAS COMPANY, L. P.  
**Well Name:** WELLINGTON FEDERAL 22-4 SWD  
**Lease Serial No.:** UTU-80560  
**Location:** Sec. 4: T 14 S - R 11 E SENW  
**Field:** Helper  
**County:** Carbon  
**API Number:** 43-007-30967  
 1500' FWL 2350' FNL  
 SPUD: August 11, 2005





**KERR-MCGEE OIL & GAS ONSHORE LP**  
 1999 BROADWAY, SUITE 3700 • DENVER, COLORADO 80202

7-17-07

PHONE: 303-296-3600  
 FAX: 303-296-3601

State of Utah  
 Department of Natural Resources Division of Oil, Gas and Mining  
 Mr. John R. Baza, Associate Director  
 1594 West North Temple, Suite 1210  
 P.O. Box 145801  
 Salt Lake City, Utah 84114-5801

REF: Wellington Federal 22-4 SWD, 1500' FWL & 2350' FNL, SE/NW Sec. 4-T14S-R11E (SLBM),  
 Carbon Co., Utah  
 API # 43-007-30967 Lease Designation: UTU-80560  
 UIC-309 Permit – Apply for 1736 psi Surface Injection Pressure @ 11.5 bpm rate

Dear Mr. Baza;

On March 20, 2007, a step rate and build up test was performed on subject well to determine maximum injectivity potential in order to plan for 2007 through 2008 injection volumes from the new drill programs (12 wells in 2007 and 23 wells in 2008). To date approximately 2,032,042 bbls of water have been injected in the wellbore. Based upon the step rate and build up data from electronic pressure gauge, the parting pressure was not achieved due to the fracture system was open from previous injection when the step-rate was performed and/or a fracture system was initiated during the initial acid completion on 10/4/2005. IPT's pressure transient analysis from the Injection Pressure Fall-Off test concluded the fracture propagation pressure is 3050 psi (0.530 psi/ft) with respective surface pressure at 1929 psi pumping at 12.6 bpm rate. Please reference the step rate graph "Wellington Federal 22-4 Step-Rate Test Mach 20, 2007" for interpretation including data reference sheet. Kerr-McGee (dba Anadarko Petroleum) respectively requests that the allowable limit for injection into the subject disposal well permitted for 90% of the surface pressure (1929 psi) at the fracture propagation pressure of 3050 psi, respectively permit approval for 1736 psi surface pressure and 11.5 bpm injection rate (pressure dependant).

Thank you for your time and consideration reviewing this request.

Sincerely yours,

Larry A Chambers  
 Senior Staff Engineer

Attachments:

- 1) Wellington Federal 22-4 Step Rate-Test, 3-20-07 Plot
- 2) Wellington Federal 22-4 Step-Rate Test Data w/ Friction Plot
- 3) IPT's Injection Pressure Fall-off Test Analyses
- 4) Current Well bore Diagram
- 5) Wellington Federal 22-4 SWD Injection Plot

*Request they submit a Sundry Notes for well requesting the pressure increases so Brad can sign them.*

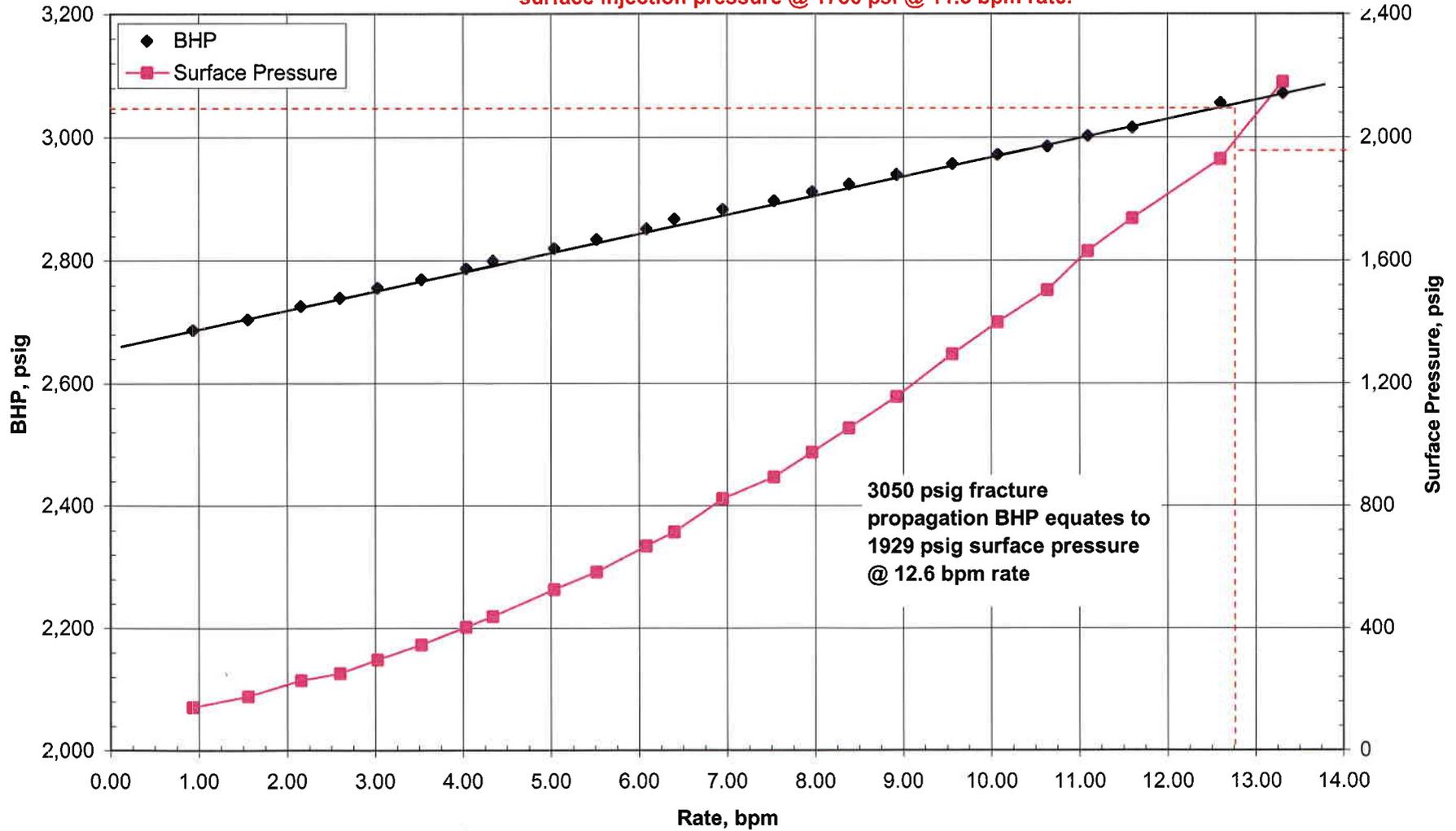
RECEIVED

JUL 20 2007

DIVISION OF OIL & GAS

**Wellington Federal 22-04  
Step-Rate Test  
March 20, 2007**

Parting pressure was not achieved during step rate test as no slope change, thus the fracture pressure was not achieved. The fracture system was open from previous injection when step-rate test was performed and/or fractures were initiated during the initial cpl. UIC Request: 90% of 3050 psi fracture propagation surface injection pressure @ 1736 psi @ 11.5 bpm rate.



Wellington Federal 22-4 SWD  
 Step-Rate Test  
 March 20, 2007

BH Pressure Gauge @ 5747' KB  
 KB = 14'

**End of Rate Pressures**

Rate, bpm	BHP, psig	Surface Pressure, psig	Hydrostatic Pressure, psig	Friction Pressure, psig (Pipe + Perf)= Bhp-Psurf-Phyd
0.93	2,687	144	2,482	-61
1.55	2,704	178	2,482	-44
2.15	2,726	231	2,482	-12
2.60	2,739	254	2,482	-3
3.02	2,756	299	2,482	26
3.52	2,770	347	2,482	60
4.03	2,787	405	2,482	100
4.34	2,799	440	2,482	123
5.04	2,820	528	2,482	191
5.52	2,834	585	2,482	233
6.08	2,851	670	2,482	301
6.40	2,867	715	2,482	330
6.95	2,883	823	2,482	422
7.53	2,897	894	2,482	480
7.96	2,911	975	2,482	546
8.38	2,924	1,054	2,482	613
8.92	2,940	1,157	2,482	700
9.56	2,957	1,295	2,482	821
10.07	2,971	1,400	2,482	911
10.64	2,985	1,504	2,482	1,001
11.10	3,002	1,631	2,482	1,112
11.60	3,015	1,738	2,482	1,205
12.60	3,055	1,929	2,482	1,356
13.31	3,071	2,180	2,482	1,591

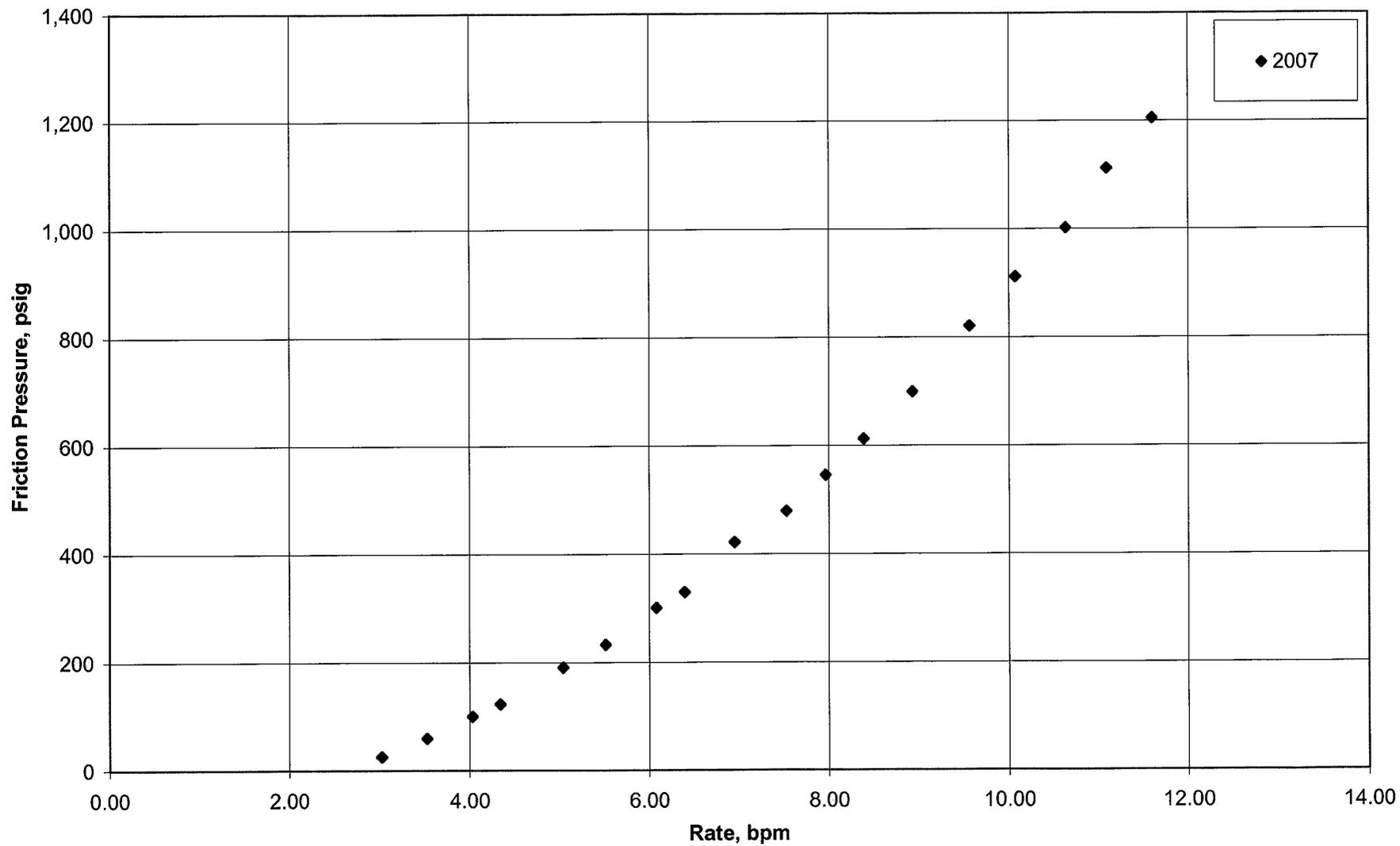
Fracture Propagation  
 Pressure = 3050 psi

$Bhp = P_{surf} + P_{hyd} + P_{friction}$

Permit Request:

% of Fracture Propagation Pres, psi	90.0%
Surface Pressure, psi	1736
Injection Rate, Bpm	11.5
Injection Rate, Bwpd	16560

Wellington Federal 22-04 March 20, 2007  
Friction Pressure (Pipe + Perf) vs. Injection Rate



Injection Test Analysis

	Pre-Closure Analysis	Post-Closure Analysis
Fracture propagation pressure, psi	3050	N/A
Propagation pressure gradient, psi/ft	0.530	N/A
Fracture closure pressure, psi	2780	N/A
Closure pressure gradient, psi/ft	0.483	N/A
Leakoff coefficient, ft/min <sup>1/2</sup>	0.007	N/A
Effective reservoir permeability, md	33.9	33.8
Flow Capacity, md-ft	8340	8280
Net pay Thickness, ft	246	246
Reservoir pressure, psig	N/A	2475
Reservoir pressure gradient, psi/ft	N/A	0.43
Skin Factor	N/A	-6.0
Effective infinite conductivity fracture half-length, ft.	N/A	133
Verticle Fracture Growth, ft.	Top	N/A
	Bottom	N/A

Step-Rate Data Plot Analysis: Fracture closure pressure was not achieved (no slope change).  
 Fracture remained open from previous injection when the step-rate test was initiated.  
 Post closure analysis suggests the Navajo interval has high permeability.

April 30, 2007

Matthew Peloquin  
Anadarko Petroleum Corporation  
1099 18<sup>th</sup> Street, Suite 1200  
Denver, Colorado 80202

**RE:** Injection Pressure Fall-off Test Analyses  
Wellington Federal 22-4  
Navajo Formation  
Carbon County, Utah

Dear Mr. Peloquin:

Attached is the summary report for the pressure transient analysis from the Injection Pressure Fall-Off Test performed on the current Navajo completion in the Wellington Federal 22-4, Carbon County, Utah.

IPT appreciates the opportunity to work with you and Anadarko Petroleum on this project. Please do not hesitate to call if you have any questions or require any additional assistance.

Sincerely,

Richard Burns, PE  
Vice President of Reservoir Engineering

## 1.0 Executive summary

IPT analyzed and evaluated the injection pressure fall-off test conducted on the Navajo completion in the Wellington Federal 22-4. This analysis was performed to evaluate reservoir parameters and the status of the current completion.

The analysis of the injection pressure fall-off test conducted on the Navajo completion in the Wellington Federal 22-4 suggests a reservoir flow-capacity (kh) of approximately 8,280 md-ft with an effective infinite conductivity fracture half-length of 133 feet at the conclusion of the step-rate test. Current reservoir pressure is calculated to be approximately 2,475 psig.

The Wellington Federal 22-4 is a water disposal well with perforations in the Navajo and Wingate formation with seven perforated intervals between 5,521' and 5,971'. A majority of the perforations (1,072 out of 1,340 holes) and net pay (268' of the 335') are in the Navajo formation. Water injection (disposal) was initiated in this completion on November 19, 2005 at approximately 2,900 bwpd with an estimated surface pressure of 600 psig. Current injection rate is 3,450 Bwpd at 650 psig. On March 20, 2007, a step-rate injection was conducted on the completion. During the step-rate test, the injection rate was gradually increased from 1.0 Bpm to 13.1 Bpm. At the conclusion of the step-rate test, well was subsequently shut-in for a 24-hour pressure fall-off test. The pressure fall-off was analyzed with both pre-closure and post-closure techniques to determine reservoir and fracture parameters. The results from both analysis techniques are shown in Table 1.

The following are the general conclusions and observations of these evaluations:

- The pre-closure analysis demonstrates a fracture closure pressure of 2,780 psi (0.483 psi/ft). Utilizing this fracture closure pressure, the observed net pressure character is matched with a leakoff coefficient of  $0.007 \text{ ft}/\text{min}^{1/2}$ , which corresponds to an average reservoir permeability of 33.9 md across a contacted pay thickness of 246 feet.
- The post-closure PTA analysis suggests the Navajo interval has high permeability. Based upon the analysis of the late time pressure data trends, average reservoir permeability is estimated to be 33.8 md (contacted net pay thickness of 246 feet), and reservoir pressure is calculated to be 2,475 psi. The PTA analysis also suggests a stimulated completion with a skin factor of -6.0, which corresponds to an effective infinite conductivity fracture half-length of 133 feet. It should be noted that the calculation of reservoir permeability is based upon the net pay interval that is effectively communicated with the created fracture. The calculation of average permeability will be inversely proportional to the net pay thickness.

**Table 1: Reservoir parameters.**

Reservoir Parameter	Injection Tests Analysis	
	Pre-Closure Analysis	Post-Closure Analysis
Model	Fracture	Radial
Fracture propagation pressure (psi)	3,050	N/A
Propagation pressure gradient (psi/ft)	0.530	N/A
Fracture closure pressure (psi)	2,780	N/A
Closure pressure gradient (psi/ft)	0.483	N/A
Leakoff coefficient (ft/min <sup>1/2</sup> )	0.007	N/A
Effective reservoir permeability (md)	33.9	33.8
Flow capacity (md-ft)	8,340	8,280
Net pay thickness (ft)	246	246
Reservoir pressure (psig)	N/A	2,475
Reservoir pressure gradient (psi/ft)	N/A	0.43



## 2.0 Discussion of pre-closure analysis of injection test

IPT analyzed and evaluated the pre-closure portion of the pressure response from the fall-off test performed on the Navajo formation in the Wellington Federal 22-4. This analysis was performed to determine the fracture parameters for the Navajo formation.

The following are the general conclusions and observations of this evaluation:

- Hydraulic fracture propagation is confirmed by the typical diagnostic plots for an injection/falloff test: semi-log-of-time (Figure 2) and square-root-of-time (Figure 3) as discussed in SPE 29599. The semi-log-of-time plot confirms fracture closure. The square-root-of-time plot determines fracture closure pressure to be at approximately 50.1 minutes with a calculated bottom-hole closure pressure of 2,780 psi (0.483 psi/ft).
- The G-Function plot (Figure 4) also demonstrates fracture closure pressure at 2,780 psi.
- The bottom hole treatment pressure response and net pressure history match are shown in Figure 5. Utilizing the fracture closure pressure determined from the injection test, the observed net pressure character is matched with a leakoff coefficient of  $0.007 \text{ ft/min}^{1/2}$ . This relates to a reservoir permeability of 33.9 md (utilizing a contacted pay thickness of 246 feet).
- A profile of the fracture created during this injection test is shown in Figure 6. The vertical growth of the created fracture was from 5,580 to 5,820'. The net pay thickness contacted by this fracture is 246 feet.

The following are the graphical presentations used in the analysis:

- Figure 1:** Cartesian plot of bottom-hole pressure and temperature.  
**Figure 2:** Injection test pressure falloff analysis, semi-log-of-time plot.  
**Figure 3:** Injection test pressure falloff analysis, square-root-of-time plot.  
**Figure 4:** Injection test pressure falloff analysis, G-Function plot.  
**Figure 5:** Injection test data and net pressure history match.  
**Figure 6:** Profile of created fracture.

APC Wellington 22-4 Injection Pressure Fall-off

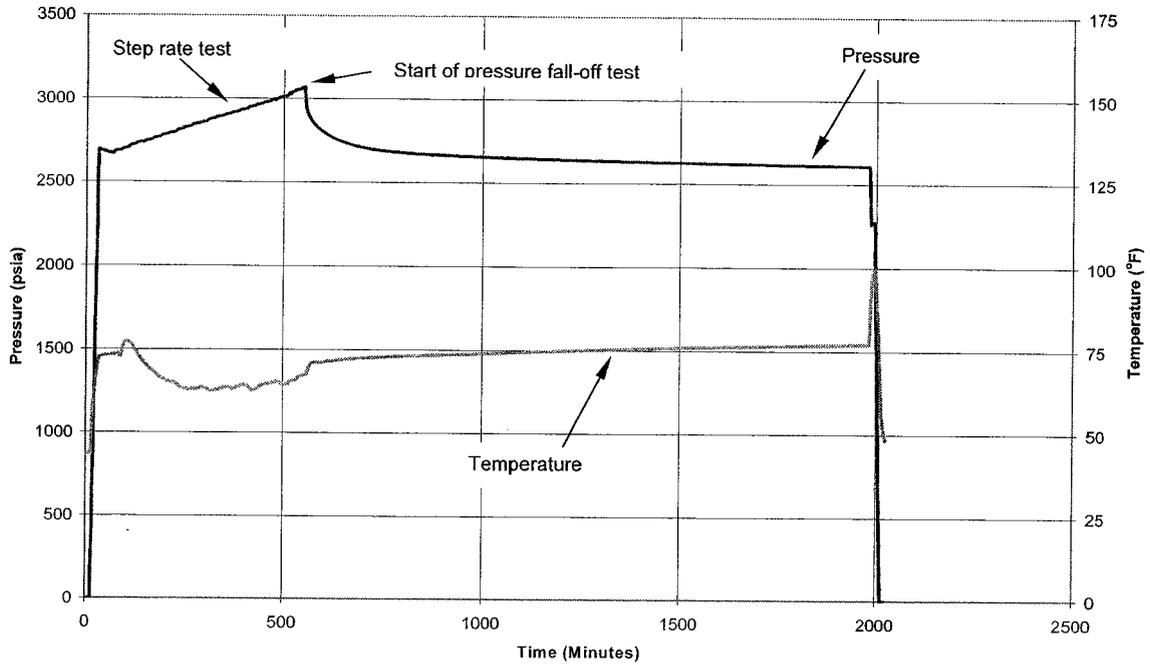


Figure 1: Cartesian plot of bottom-hole pressure and temperature.

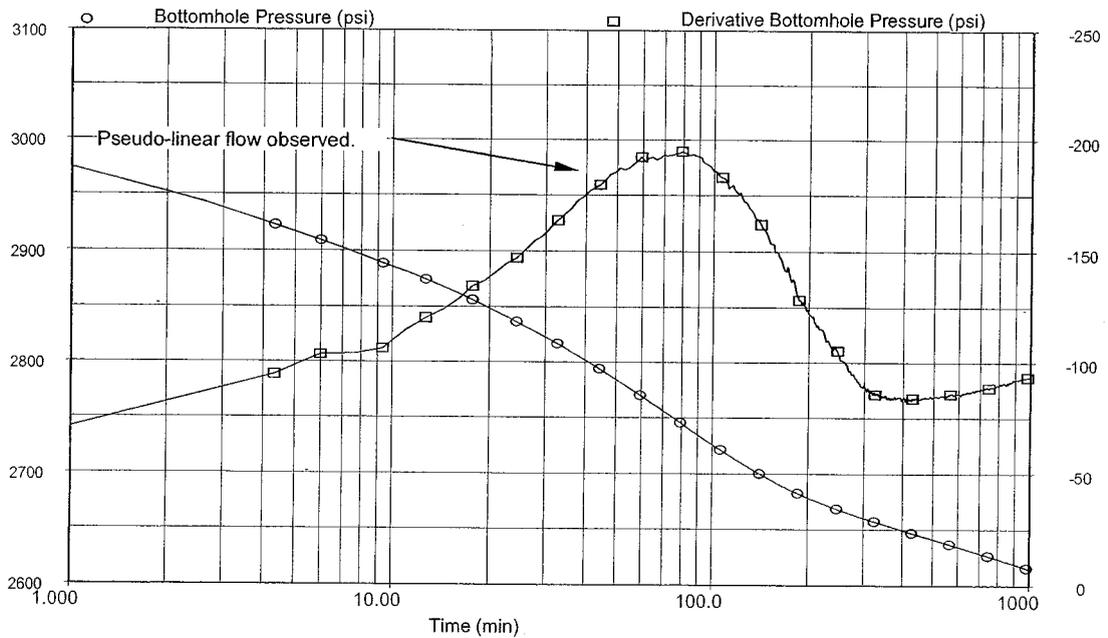


Figure 2: Injection test pressure falloff analysis, semi-log-of-time plot.

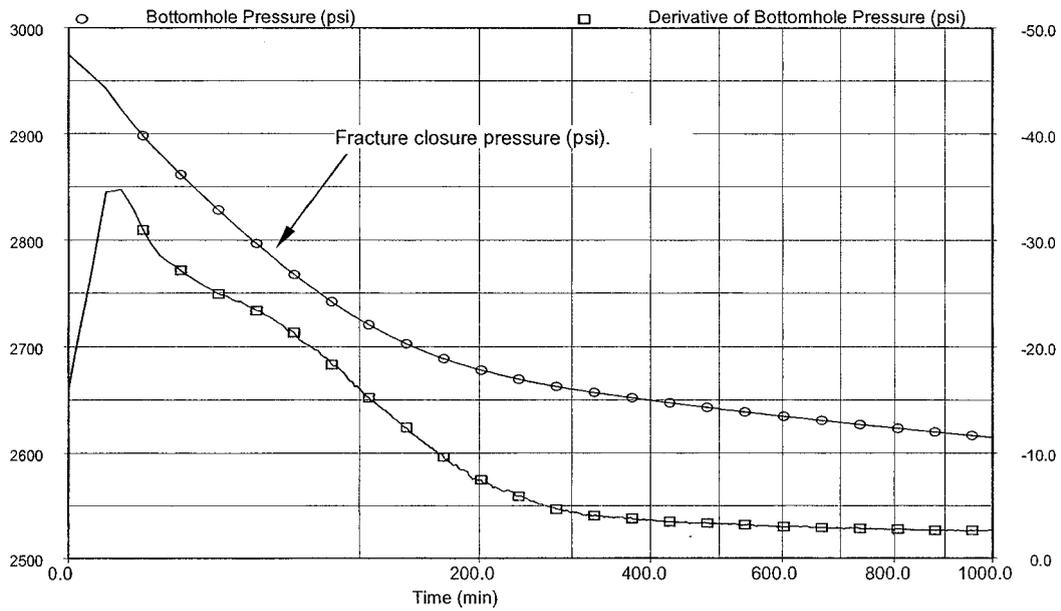


Figure 3: Injection test pressure falloff analysis, square-root-of-time plot.

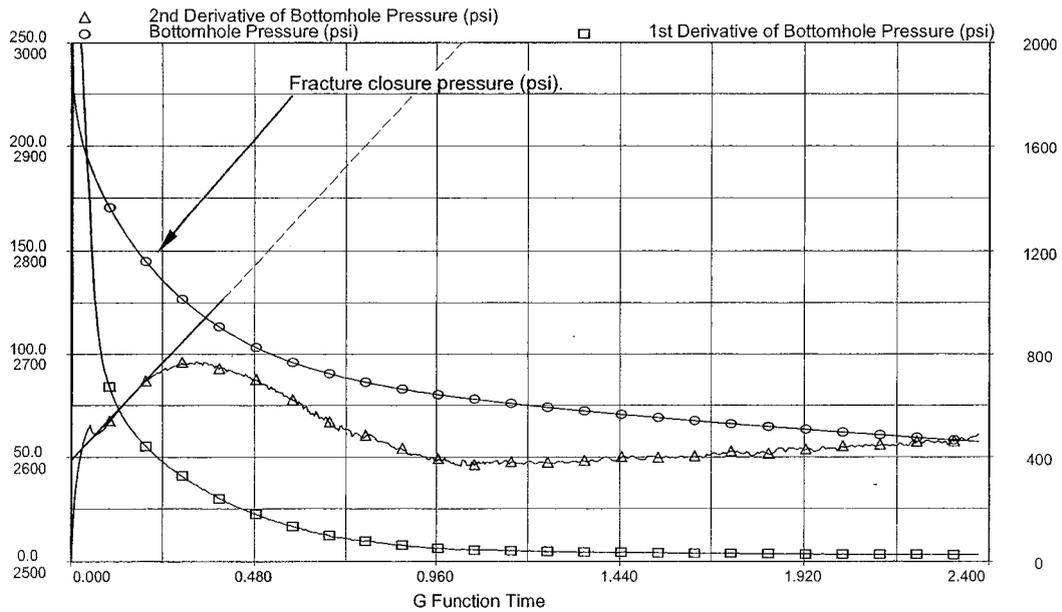


Figure 4: Injection test pressure falloff analysis, G-Function plot.

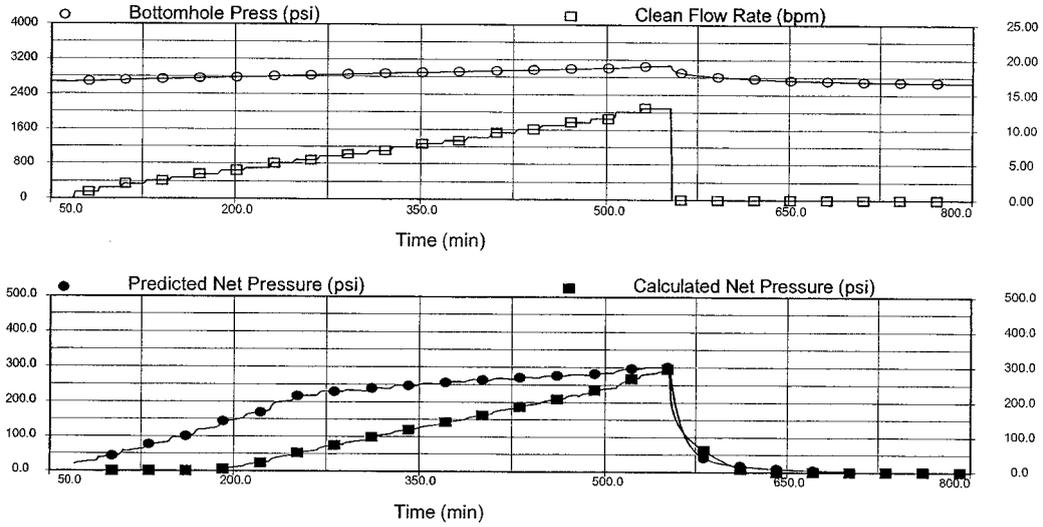


Figure 5: Injection test data and net pressure history match.

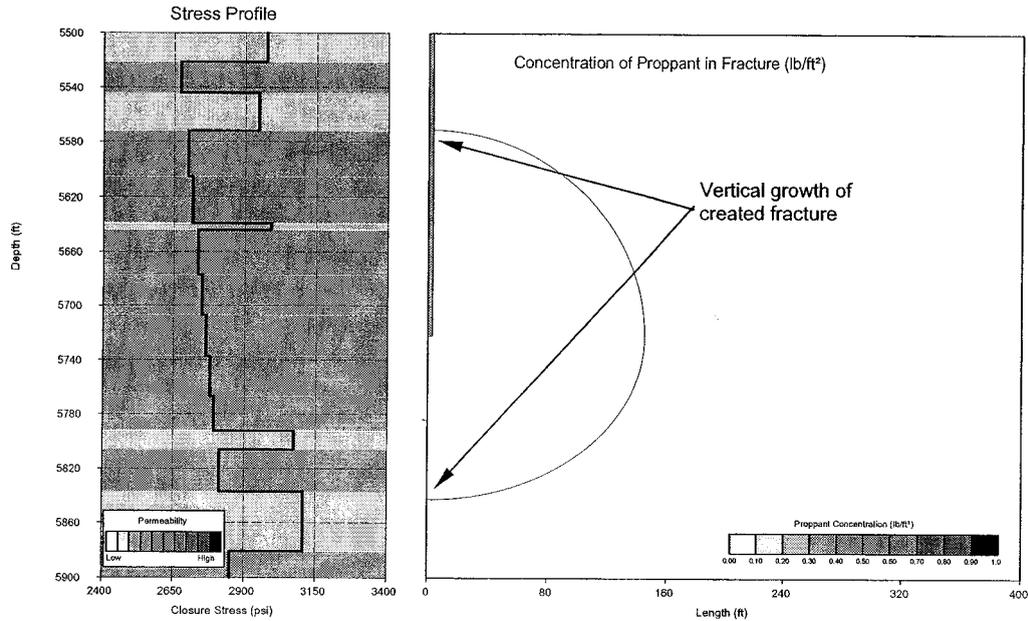


Figure 6: Injection test data and net pressure history match.

### 3.0 Review of post-closure analysis of injection test

The reservoir parameters calculated from the pressure fall-off analysis (PTA) of the injection/falloff test are shown in Table 1.

The following figures are used in the analysis:

**Figure 7:** Diagnostic log-log plot.

**Figure 8:** Semi-log plot.

Observations from the pressure fall-off (PTA) evaluation are shown below:

- The observed slope during the early-time portion of the pressure data (Figure 7: diagnostic log-log plot) suggests a stimulated completion with skin factor of -6.0. Calculated effective infinite conductivity fracture half-length is 133 feet.
- The PBU test approaches but does not reach a period of infinite acting radial flow (Figure 7). Therefore, reservoir parameters are determined from type curve analysis. There is sufficient character in the pressure and derivative curves to get accurate estimates of reservoir and completion parameters. Utilizing the type curve matching process, flow capacity is determined to be 8,280 md-ft. Based upon a net pay thickness of 246' (net pay thickness communicated with created fracture), average reservoir permeability is calculated to be 33.8 md.
- The middle time portion of the pressure also exhibits a change in slope which is characteristic of a layered flow regime. This behavior is consistent with multiple perforated intervals and suggests a variance in layer properties.
- Based upon the late time pressure trends, current reservoir pressure is calculated to be 2,475 psia.

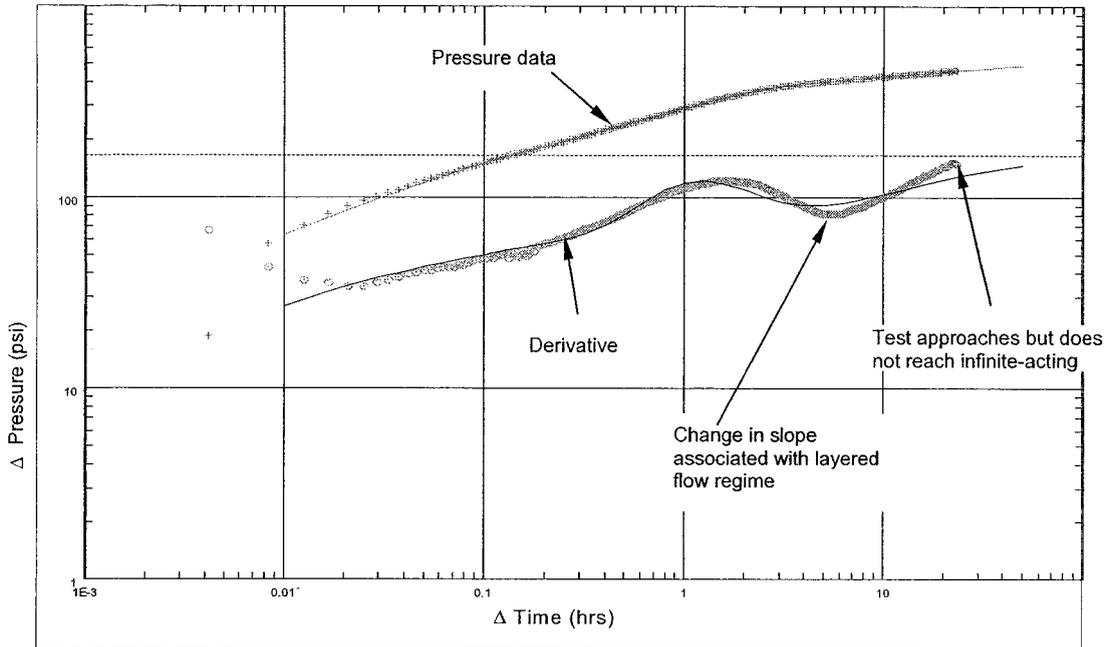


Figure 7: Diagnostic log-log plot.

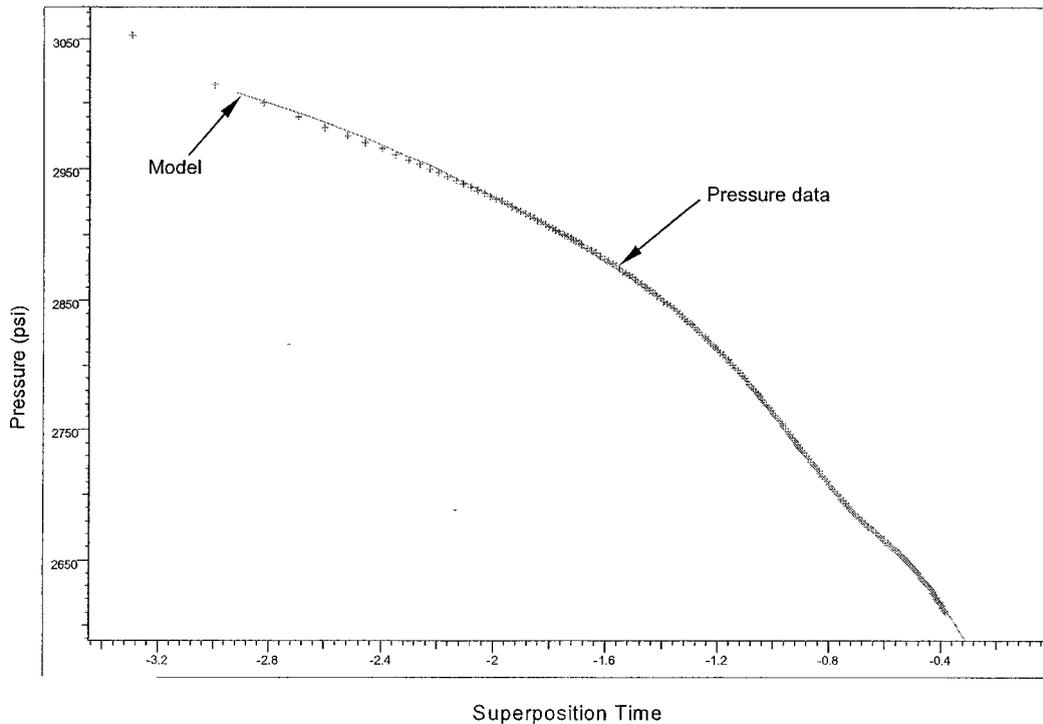


Figure 8: Semi-log plot.

#### 4.0 Review of step-rate test

In addition to the pre-closure and post-closure analyses, the data from the step-rate test was also evaluated.

The following figures are used in the analysis:

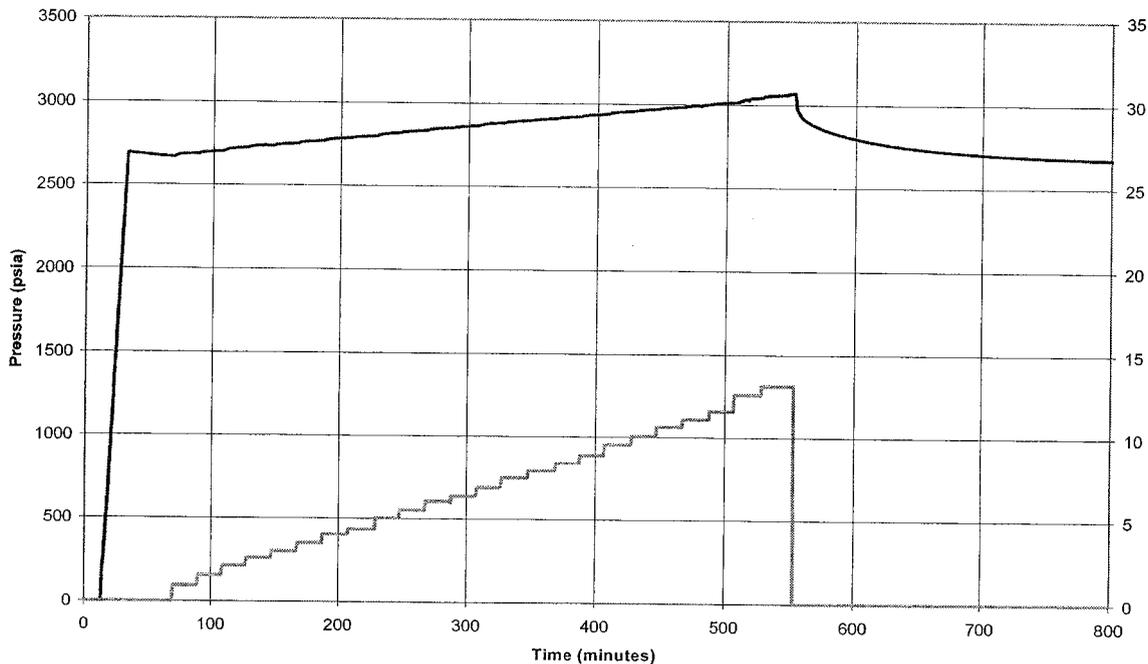
**Figure 9:** Step-rate test pressure and rate data.

**Figure 10:** Step-rate test plot.

Observations from the pressure fall-off (PTA) evaluation are shown below:

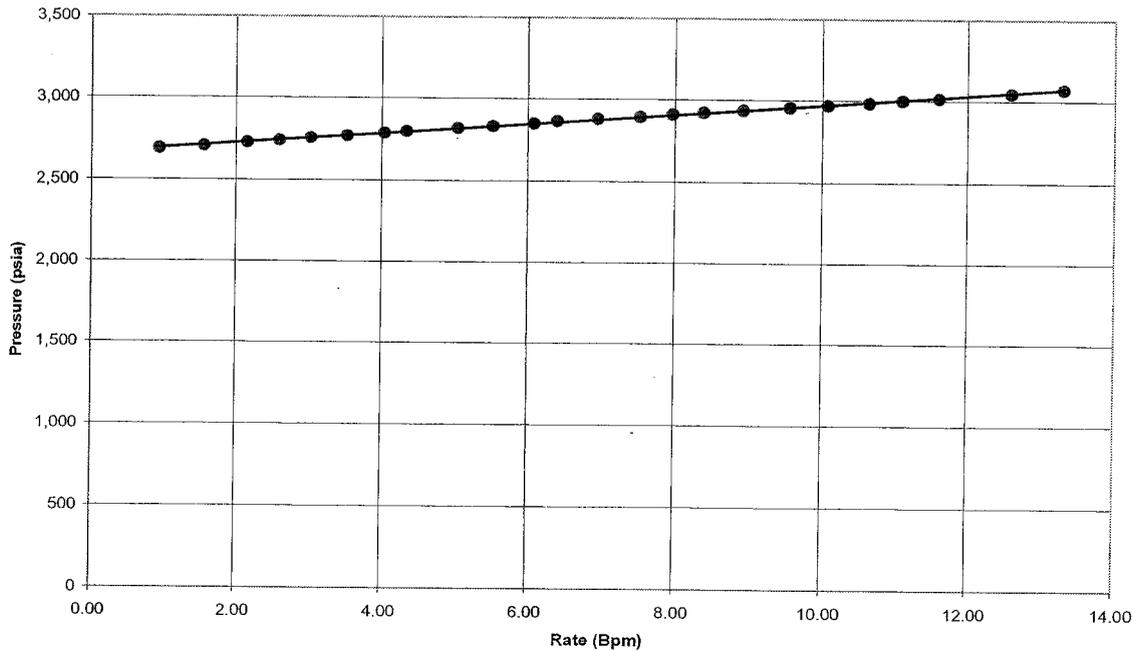
- The observed data from the step-rate data plots on a straight-line (Figure 10). This data does not display the anticipated slope change when “fracture pressure” is achieved. This character suggests that the fracture was still open from previous injection when the step-rate test was initiated.

**Wellington Federal 22-4 Step-Rate Pressure and Rate Plot**



**Table 9: Step-rate test pressure and rate data.**

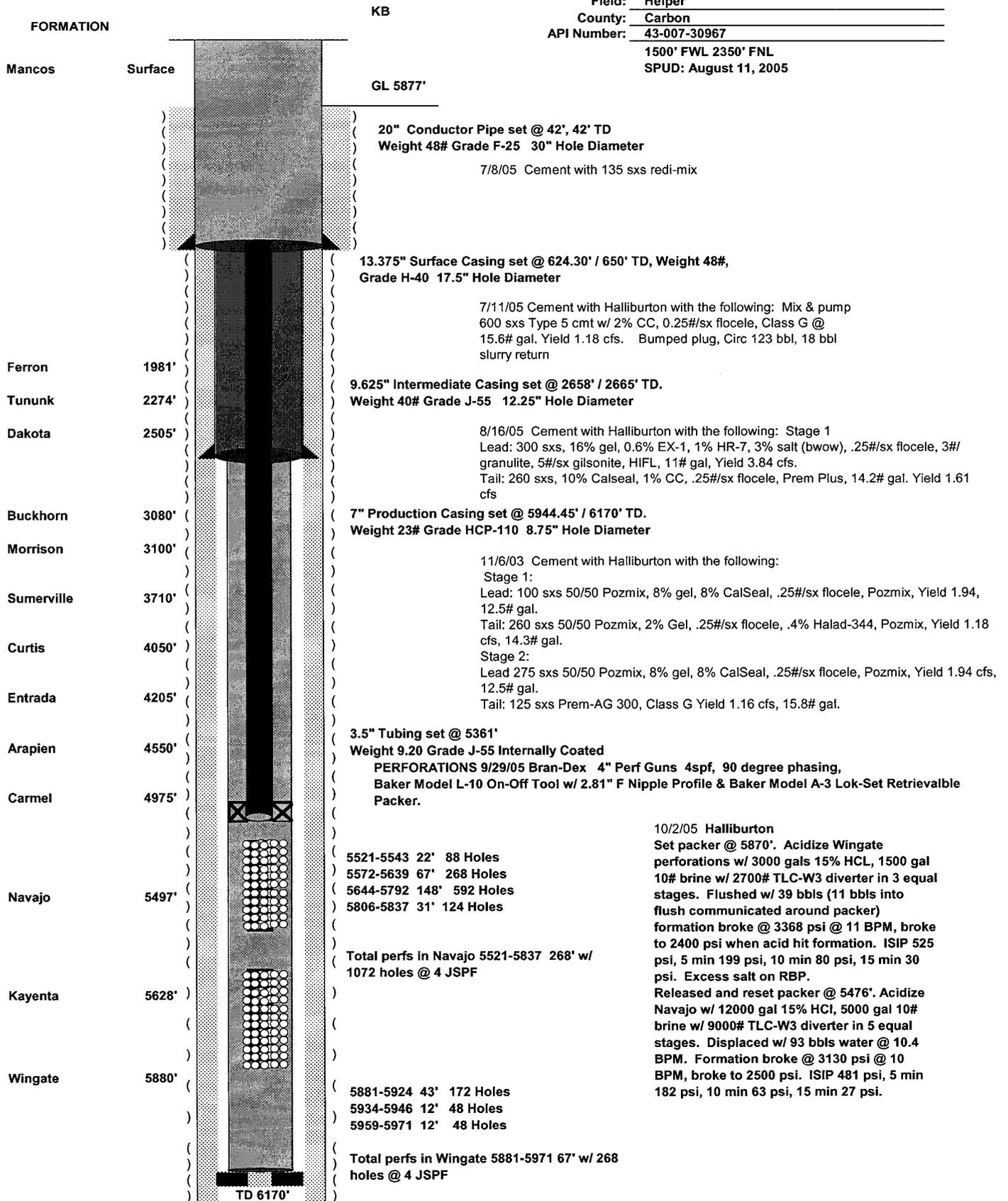
**Wellington Federal 22-04 Step-Rate Test**



**Table 10: Step-rate test plot.**

# WELLBORE DIAGRAM

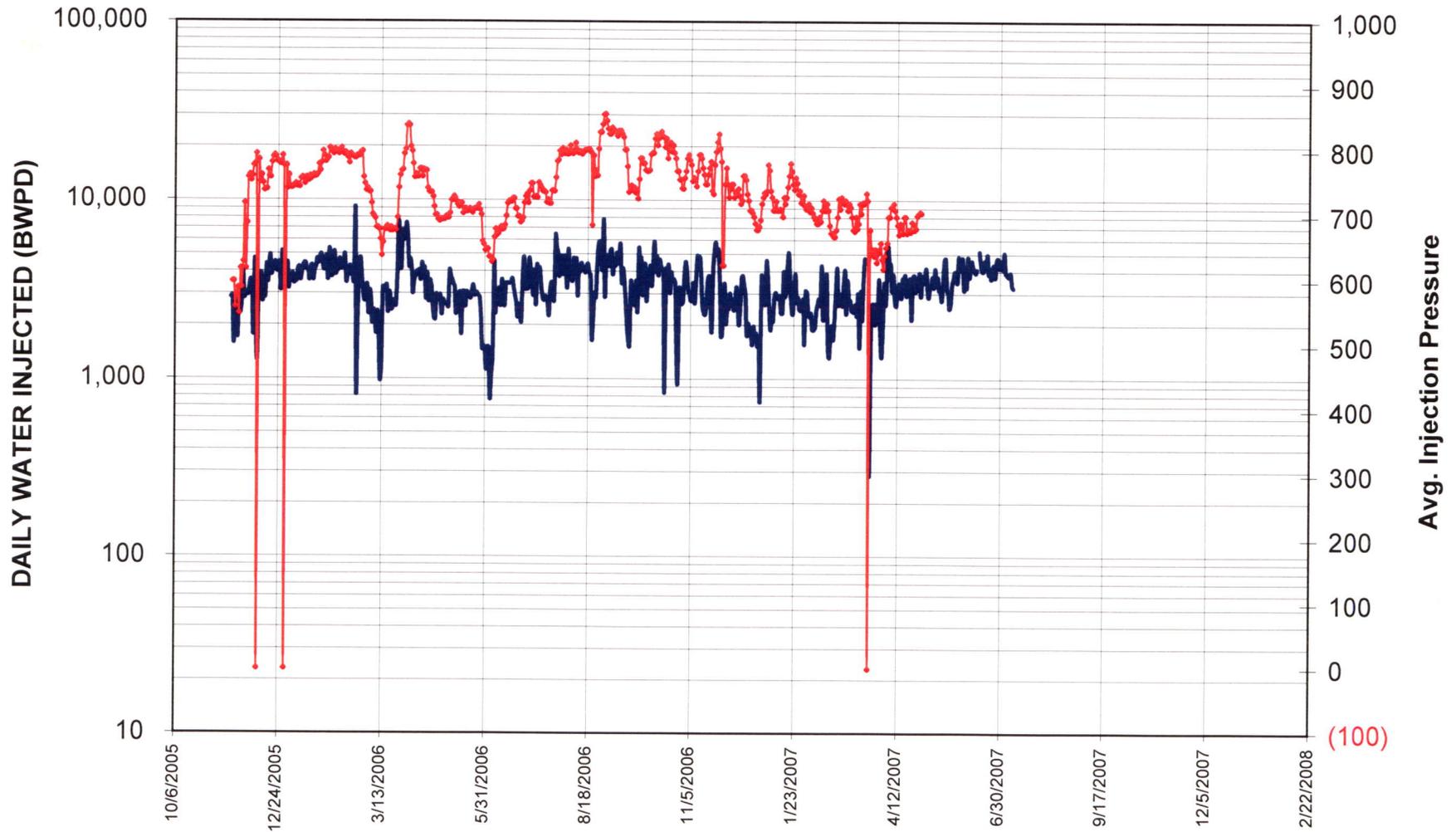
Operator: WESTPORT OIL AND GAS COMPANY, L. P.  
 Well Name: WELLINGTON FEDERAL 22-4 SWD  
 Lease Serial No.: UTU-80560  
 Location: Sec. 4: T 14 S - R 11 E SENW  
 Field: Helper  
 County: Carbon  
 API Number: 43-007-30967  
 1500' FWL 2350' FNL  
 SPUD: August 11, 2005



# WELLINGTON FEDERAL 22-04 SWD

cum water injected 2,032,042 as of 7/10/07

— Water Injected — Avg. Inj. Pressure



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-80560
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: 1500 FWL 2350 FNL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 4 14S 11E		8. WELL NAME and NUMBER: Wellington Federal 22-4 SWD
PHONE NUMBER: (720) 929-6226		9. API NUMBER: 4300730967
COUNTY: Carbon		10. FIELD AND POOL, OR WILDCAT: Helper
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 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 fracture 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

COPY SENT TO OPERATOR  
Date: 9-12-07  
Initials: CHD

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

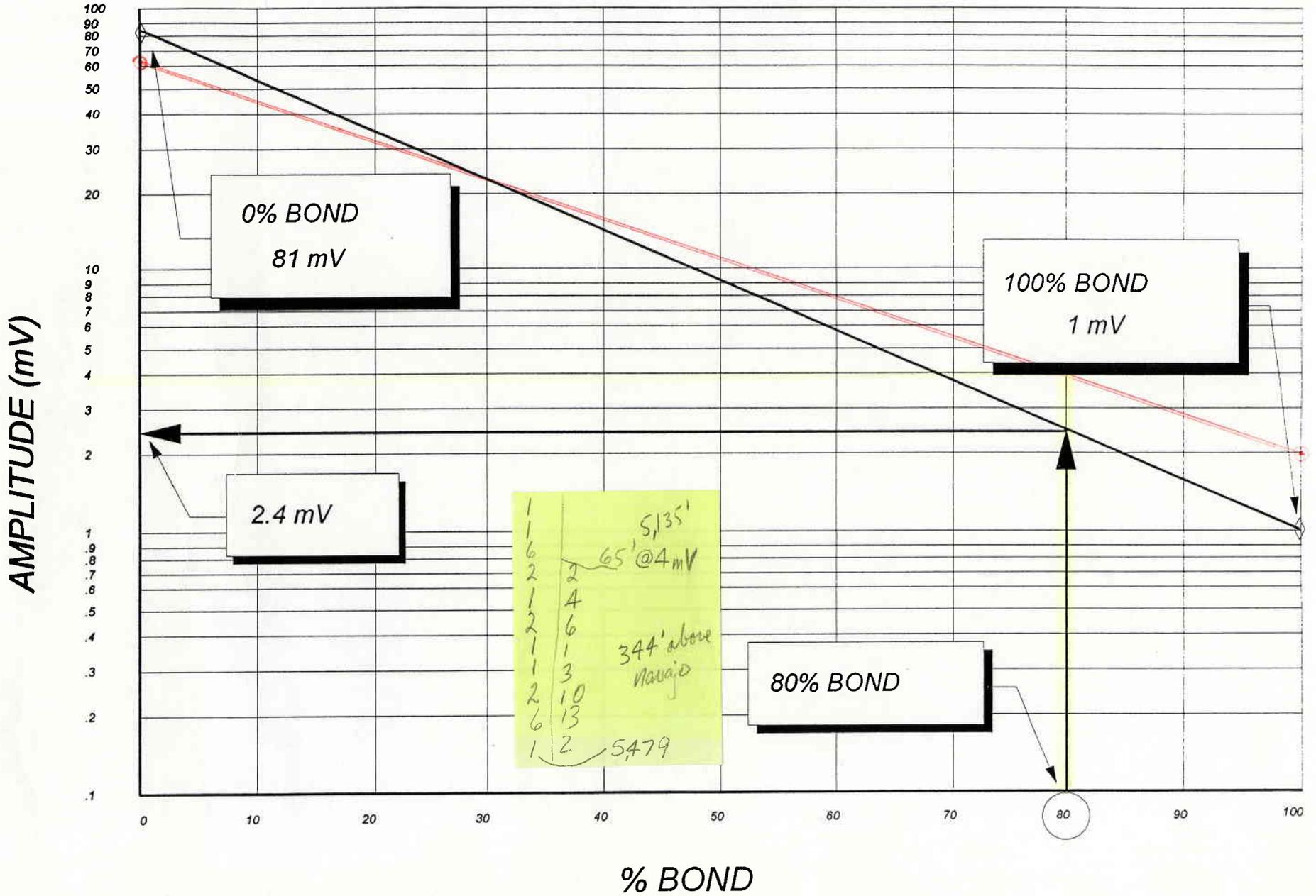
NAME (PLEASE PRINT) Kevin McIntyre  
SIGNATURE [Signature]

TITLE Permitting Specialist  
DATE 8/30/2007

(This space for State use only)

RECEIVED  
SEP 05 2007

Westport 22-4 Wellington, Federal 4300730967





Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>	
1. DJJ	
2. CDW	

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

1/6/2006

<b>FROM:</b> (Old Operator): N2115-Westport Oil & Gas Co., LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024	<b>TO:</b> ( New Operator): N2995-Kerr-McGee Oil & Gas Onshore, LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024
---	--

CA No.		Unit:						
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/10/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
- a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on: n/a 3 LA wells & all PA wells transferred
- c. Reports current for Production/Disposition & Sundries on: ok

- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/27/2006 BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 3/27/2006
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 12/15/2006

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 12/15/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 12/15/2006
- Bond information entered in RBDMS on: 12/15/2006
- Fee/State wells attached to bond in RBDMS on: 12/16/2006
- Injection Projects to new operator in RBDMS on: \_\_\_\_\_
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a Name Change Only

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: CO1203
- Indian well(s) covered by Bond Number: RLB0005239
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0005236
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a rider added KMG  
The Division sent response by letter on: \_\_\_\_\_

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 5/16/2006

**COMMENTS:**

Westport Oil Gas Co LP (N2115) to Kerr-Mcgee Oil Gas Onshore, LP (N2995) sorted by Unit, Lease Type API

well_name	sec	twsp	rng	api	entity	lease	well	stat
WELLINGTON FED 44-6 SWD	06	140S	110E	4300730912	13919	Federal	WD	A
WELLINGTON FED 22-04 SWD	04	140S	110E	4300730967	14826	Federal	WD	A
SOUTHMAN CANYON U 3	15	100S	230E	4304715880	99990	Federal	WD	A
OURAY SWD 1	01	090S	210E	4304733449	13274	Fee	WD	A
				NATURAL BUTTES UNIT				
NBU 21-20B	20	090S	200E	4304730359	2900	Federal	WD	A
CIGE 9	36	090S	220E	4304730419	2900	State	WD	A
NBU 159	35	090S	210E	4304731996	2900	State	WD	A
NBU 47N2	30	100S	220E	4304730534	2900	Federal	WI	A
NBU 347	11	100S	220E	4304733709	2900	State	WI	A

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

UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

Well Name and Number Several-See Attached		API Number
Location of Well		Field or Unit Name Natural Buttes
Footage :	County : Uintah	Lease Designation and Number
QQ, Section, Township, Range:	State : UTAH	

**EFFECTIVE DATE OF TRANSFER:** 1/6/2006

**CURRENT OPERATOR**

*N2115*

Company: <u>Westport Oil and Gas Company</u>	Name: <u>Carroll Estes</u>
Address: <u>1368 South 1200 East</u>	Signature: <u><i>Carroll Estes</i></u>
<u>city Vernal state UT zip 84078</u>	Title: <u>Principal Environmental Specialist</u>
Phone: <u>(435) 789-4433</u>	Date: <u>12/14/2006</u>
Comments:	

**NEW OPERATOR**

*N2995*

Company: <u>Kerr McGee Oil and Gas Company, LP</u>	Name: <u>Carroll Estes</u>
Address: <u>1368 South 1200 East</u>	Signature: <u><i>Carroll Este</i></u>
<u>city Vernal state UT zip 84078</u>	Title: <u>Staff Environmental Specialist</u>
Phone: <u>(435) 789-4433</u>	Date: <u>12/14/2006</u>
Comments:	

(This space for State use only)

Transfer approved by: *Don Jones*  
 Title: *UIC Geologist*

Approval Date: *12/20/06*

Comments:

*Only applies to Wellington Fed 44-6  
 and Wellington Fed 22-04.  
 All other wells are in Indian country  
 and need EPA approval*

(5/2000)

**RECEIVED**

**DEC 15 2006**

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
**MULTIPLE LEASES**  
6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

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

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
**MUTIPLE WELLS**

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

9. API Well No.

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

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

10. Field and Pool, or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SEE ATTACHED**

11. County or Parish, State  
**UINTAH COUNTY, UTAH**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<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
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other <b>CHANGE OF OPERATOR</b>

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

PLEASE BE ADVISED THAT KERR-McGEE OIL & GAS ONSHORE LP, IS CONSIDERED TO BE THE OPERATOR OF THE ATTACHED WELL LOCATIONS. EFFECTIVE JANUARY 6, 2006.  
KERR-McGEE OIL & GAS ONSHORE LP, IS RESPONSIBLE UNDER TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASE LANDS. BOND COVERAGE IS PROVIDED BY STATE OF UTAH NATIONWIDE BOND NO. RLB0005237.

**RECEIVED**  
**MAY 10 2006**

**BLM BOND = C 01203**  
**BIA BOND = RLB0005239**

**APPROVED 5116106**  
*Earlene Russell*

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)  
**RANDY BAYNE**  
Signature  
*Randy Bayne*

Title  
**DRILLING MANAGER**  
Date  
**May 9, 2006**

**Division of Oil, Gas and Mining**  
**Earlene Russell, Engineering Technician**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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5. Lease Serial No.

**MULTIPLE LEASES**

6. If Indian, Allottee or Tribe Name

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

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

Oil Well  Gas Well  Other

8. Well Name and No.

**MUTIPLE WELLS**

2. Name of Operator

**WESTPORT OIL & GAS COMPANY L.P.**

9. API Well No.

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

10. Field and Pool, or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SEE ATTACHED**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

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

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

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

EFFECTIVE JANUARY 6, 2006, WESTPORT OIL & GAS COMPANY L.P., HAS RELINQUISHED THE OPERATORSHIP OF THE ATTACHED WELL LOCATIONS TO KERR-McGEE OIL & GAS ONSHORE LP.

**APPROVED** 5/16/06  
*Earlene Russell*  
**Division of Oil, Gas and Mining**  
**Earlene Russell, Engineering Technician**

**RECEIVED**  
**MAY 10 2006**

**DIV. OF OIL, GAS & MINING**

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

Name (Printed/Typed)

**BRAD LANEY**

Title

**ENGINEERING SPECIALIST**

Signature

Date

**May 9, 2006**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

*Brad Laney*

Title

Date

**5-9-06**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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



## United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Colorado State Office  
2850 Youngfield Street  
Lakewood, Colorado 80215-7076

IN REPLY REFER TO:

CO922 (MM)  
3106  
COC017387 et. al.

March 23, 2006

### NOTICE

Kerr-McGee Oil & Gas Onshore L.P. :  
1999 Broadway, Suite 3700 : Oil & Gas  
Denver, CO 80202 :

#### Merger/Name Change - Recognized

On February 28, 2006 this office received acceptable evidence of the following mergers and name conversion:

Kerr-McGee Oil & Gas Onshore L.P., a Delaware Limited Partnership, and Kerr-McGee Oil & Gas Onshore LLC, a Delaware Limited Partnership merger with and into Westport Oil and Gas Company L.P., a Delaware Limited Partnership, and subsequent Westport Oil & Gas Company L.P. name conversion to Kerr-McGee Oil & Gas Onshore L.P.

For our purposes the merger and name conversion was effective January 4, 2006, the date the Secretary of State of Delaware authenticated the mergers and name conversion.

Kerr-McGee Oil & Gas Onshore L.P. provided a list of oil and gas leases held by the merging parties with the request that the Bureau of Land Management change all their lease records from the named entities to the new entity, Kerr-McGee Oil & Gas Onshore L.P. In response to this request each state is asked to retrieve their own list of leases in the names of these entities from the Bureau of Land Management's (BLM) automated LR2000 data base.

The oil and gas lease files identified on the list provided by Kerr-McGee Oil & Gas Onshore L.P. have been updated as to the merger and name conversion. We have not abstracted the lease files to determine if the entities affected by the acceptance of these documents holds an interest in the lease, nor have we attempt to identify leases where the entity is the operator on the ground that maintains vested record title or operating rights interests. If additional documentation, for change of operator, is required you will be contacted directly by the appropriate Field Office. The Mineral Management Services (MMS) and other applicable BLM offices were notified of the merger with a copy of this notice

Please contact this office if you identify additional leases where the merging party maintains an interest, under our jurisdiction, and we will document the case files with a copy of this notice. If the leases are under the jurisdiction of another State Office that information will be forwarded to them for their action.

Three riders accompanied the merger/name conversion documents which will add Kerr-McGee Oil and Gas Onshore LLC as a principal to the 3 Kerr-McGee bonds maintained by the Wyoming State Office. These riders will be forward to them for their acceptance.

The Nationwide Oil & Gas Continental Casualty Company Bond #158626364 (BLM Bond #CO1203), maintained by the Colorado State Office, will remain in full force and effect until an assumption rider is accepted by the Wyoming State Office that conditions their Nationwide Safeco bond to accept all outstanding liability on the oil and gas leases attached to the Colorado bond.

If you have questions about this action you may call me at 303.239.3768.

/s/Martha L. Maxwell  
Martha L. Maxwell  
Land Law Examiner  
Fluid Minerals Adjudication

Attachment:

List of OG Leases to each of the following offices:

MMS MRM, MS 357B-1

WY, UT, NM/OK/TX, MT/ND, WY State Offices

CO Field Offices

Wyoming State Office

Rider #1 to Bond WY2357

Rider #2 to Bond WY1865

Rider #3 to Bond WY1127



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov>

IN REPLY REFER TO:

3106

(UT-922)

March 27, 2006

### Memorandum

To: Vernal Field Office

From: Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the merger recognized by the Bureau of Land Management, Colorado State Office. We have updated our records to reflect the merger from Westport Oil and Gas Company L.P. into Kerr-McGee Onshore Oil and Gas Company. The merger was approved effective January 4, 2006.

Chief, Branch of  
Fluid Minerals

### Enclosure

Approval letter from BLM COSO (2 pp)

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare  
Dave Mascarenas  
Susan Bauman

RECEIVED

MAR 28 2006

DIV. OF OIL, GAS & MINING



GARY R. HERBERT  
Governor

GREGORY S. BELL  
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 22, 2013

Kerr McGee Oil & Gas Onshore, L.P.  
1099 18<sup>th</sup> St. #1800  
Denver, CO 80202  
Attn: Luke Urban

14S 11E 4

SUBJECT: Pressure Test for Mechanical Integrity, Wellington Fed 22-04 SWD (API# 43-007-30967) Well, Carbon County, Utah:

To Whom It May Concern:

The Underground Injection Control Program, which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five-year period beginning October 1982. The following well requires a current test:

Wellington Fed 22-04 SWD 43-007-30967

Please make arrangements and ready wells for testing during the week of May 20th, 2013, as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves, etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the well(s) to be tested on this date the test(s) may be rescheduled.
4. Company personnel should meet a DOGM representative(s) at the field office or other location as negotiated.



Page 2  
April 23, 2013  
Kerr-McGee Oil & Gas Onshore, L.P.

5. All bradenhead valves with exception of the tubing on the injection well(s) must be shut-in 24 hours prior to testing.

Please contact me at (435) 820-0862 to arrange a meeting time and place or to negotiate a different date, if the date(s) specified is unacceptable.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bart Kettle', with a long horizontal flourish extending to the right.

Bart Kettle  
Environmental Scientist

bk/dj/js

cc: Dan Jarvis, Operations Manager  
Well File