

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

FORM 3  
AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> Wilkin Ridge Federal 13-23-10-17	
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> WILDCAT	
<b>4. TYPE OF WELL</b> Gas Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> WILKIN RIDGE DEEP	
<b>6. NAME OF OPERATOR</b> GASCO PRODUCTION COMPANY						<b>7. OPERATOR PHONE</b> 303 483-0044	
<b>8. ADDRESS OF OPERATOR</b> 8 Inverness Dr. East, Suite 100, Englewood, CO, 80112						<b>9. OPERATOR E-MAIL</b> jlongwell@gascoenergy.com	
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-74401			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>	
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>	
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>	
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>	
<b>LOCATION AT SURFACE</b>	1796 FSL 671 FWL	NWSW	23	10.0 S	17.0 E	S	
<b>Top of Uppermost Producing Zone</b>	1796 FSL 671 FWL	NWSW	23	10.0 S	17.0 E	S	
<b>At Total Depth</b>	1796 FSL 671 FWL	NWSW	23	10.0 S	17.0 E	S	
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 671			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 1440	
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1500			<b>26. PROPOSED DEPTH</b> MD: 17437 TVD: 17437	
<b>27. ELEVATION - GROUND LEVEL</b> 6511			<b>28. BOND NUMBER</b> UT-1233			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 41-3530	

**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"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

<b>NAME</b> Roger Knight	<b>TITLE</b> EHS Supervisor	<b>PHONE</b> 303 996-1803
<b>SIGNATURE</b>	<b>DATE</b> 01/18/2010	<b>EMAIL</b> rknight@gascoenergy.com
<b>API NUMBER ASSIGNED</b> 43013502210000	<b>APPROVAL</b>   Permit Manager	

<b>Proposed Hole, Casing, and Cement</b>						
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Cond	17.5	13.375	0	300		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade H-40 ST&C	40	48.0			

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<b>Proposed Hole, Casing, and Cement</b>						
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Surf	12.25	9.625	0	6837		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade N-80 LT&C	40	53.5			

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<b>Proposed Hole, Casing, and Cement</b>						
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Prod	7.875	4.5	0	17437		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade HCP-110 LT&C	40	15.1			

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API Well No: 45013502210000

# T10S, R17E, S.L.B.&M.

## GASCO PRODUCTION COMPANY

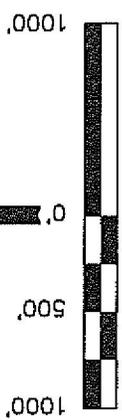
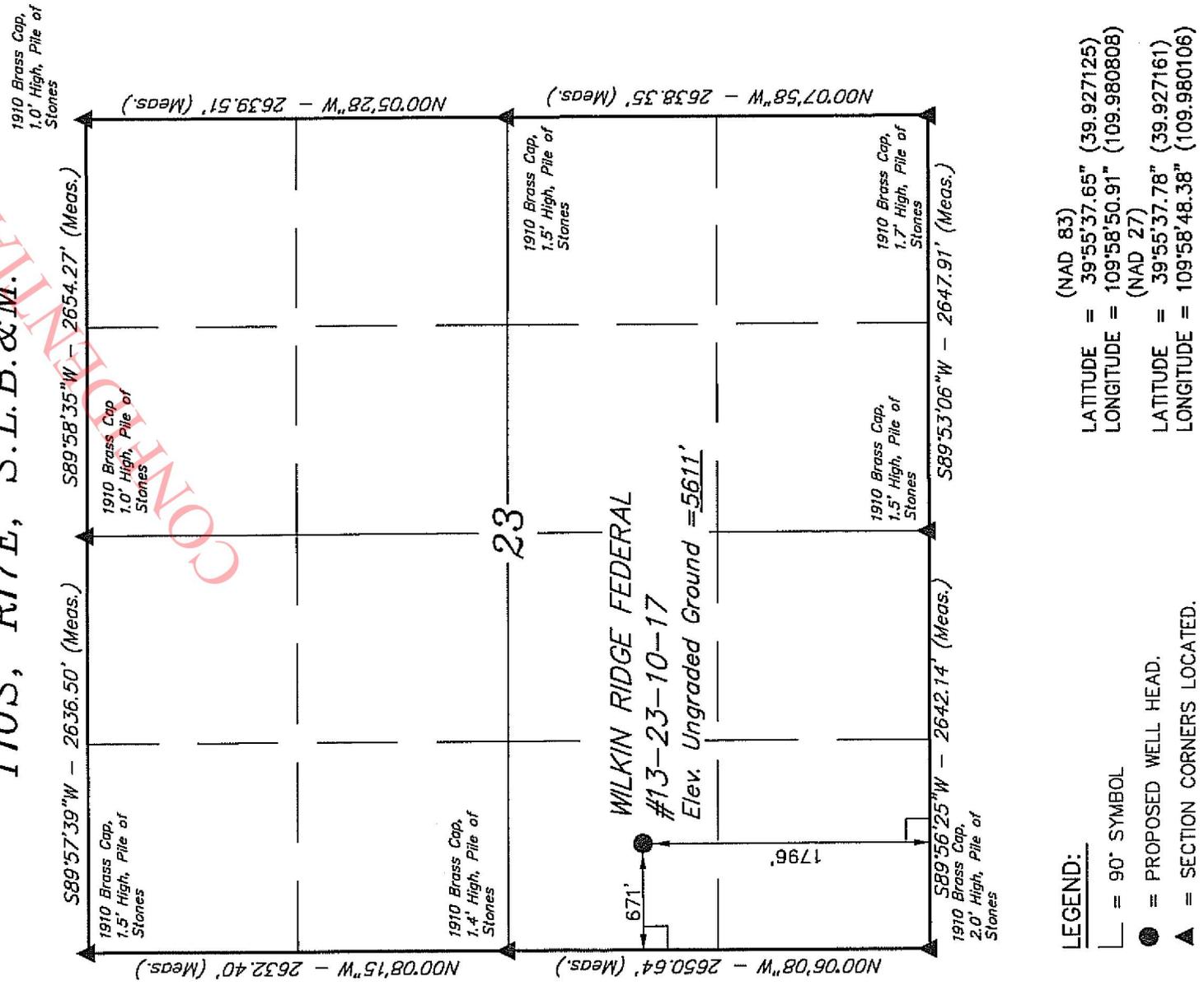
Well location, WILKIN RIDGE FEDERAL #13-23-10-17, located as shown in the NW 1/4 SW 1/4 of Section 23, T10S, R17E, S.L.B.&M., Duchesne County, Utah.

### BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 14, T10S, R18E, S.L.B.&M. TAKEN FROM THE MOON BOTTOM QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5129 FEET.

### BASIS OF BEARINGS

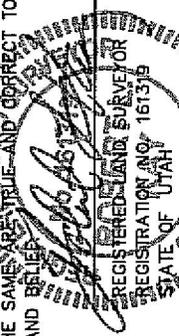
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



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.



## UNTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 03-28-08	DATE DRAWN: 03-31-08
PARTY J.W. C.G. D.P.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE	GASCO PRODUCTION COMPANY

LEGEND:

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

(NAD 83)  
 LATITUDE = 39°55'37.65" (39.927125)  
 LONGITUDE = 109°58'50.91" (109.980808)  
 (NAD 27)  
 LATITUDE = 39°55'37.78" (39.927161)  
 LONGITUDE = 109°58'48.38" (109.980106)

**Gasco Production Company**  
**Wilkin Ridge Federal 13-23-10-17**  
**NW/SW, Section #23, Township10S, Range17E**  
**Duchesne, Utah**  
**Lease No. UTU- #74401**

**ONSHORE OIL & GAS ORDER NO. 1**

**Drilling Program**

**1. Estimated Tops of Important Geological Markers**

<b>Formation</b>	<b>Depth</b>	<b>Subsea</b>
Wasatch	4,837'	780'
Mesaverde	7,305'	-3,290'
Castlegate	9,795'	-5,850'
Blackhawk	10,025'	-6,100'
Kenilworth	11,155'	-6,630'
Spring Canyon	11,255'	-6,930'
Mancos	15,585'	-7,190'
Dakota	17,067'	-11,450'
TD	17,347'	-11,730'

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

<b>Substance</b>	<b>Formation</b>	<b>Depth</b>
Gas	Wasatch	5,000' - 8,907'
Gas	Mesaverde	8,907' - 11,467'
Gas	Blackhawk	11,717' - 12,647'
Gas	Mancos	12,807' - 17,067'
Gas	Dakota	17,067' - 17,267'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

**3. Pressure Control Equipment**

All well control equipment will be in accordance to Onshore Order No. 2 for 5M Systems and are as follows:

- 10,000# BOP with 4 ½" Pipe Rams
- 10,000# BOP with Blind Rams
- 5,000# Annular

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Ram type preventers and associated equipment shall be tested to the approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline on pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

### **Pressure Control Equipment Continued**

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more that once a day.

A BPOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

BOP systems shall be consistent with API RP 53 Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling cement plugs.

The District Office will be notified, with sufficient lead time, in order to have a BLM representative on location during testing.

a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not yet been chosen to drill this well, most of the equipment for this depth will utilize 5M working BOP.

b. A choke line and kill line are to be properly installed. The kill line is not to be used as a fill-up line.

c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.

d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

**4. Proposed Casing and Cementing Program**

a. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones abnormally pressured zones and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations.

Determination of casing setting depth shall be based on all relevant factors including: presence/absence of hydrocarbons, fracture gradients, usable water zones, formation pressures, lost circulation zones, other minerals, or other unusual characteristics. All indications of usable water shall be reported.

**b. Casing Program**

	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Grade</u>	<u>Type</u>
Conductor	300	17.5	13.375	H-40	ST&C
Surface	6,837	12.25	9.625	N-80	LT&C
Production	17,437	7.875	4.5	HCP-110	LT&C

c. Casing design subject to revision based on geologic conditions encountered.

**d. Cement Program**

	<u>Est. Top of Cement</u>	<u>Cement Type</u>	<u>Quantity</u>	<u>Yield</u>	<u>Supply Wt.</u>
Conductor	Surface	Type V	300	1.18	15.6
Surface	Surface	Hi-Lift	941	3.91	11
		10-2 RFC	185	1.63	14.2
Production	6,737'	Hi-lift	523	3.05	11.5
	6,737'	50/50 poz	2385	1.28	14.1

e. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

f. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.

'APIWellNo:43013502210000'

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g. The following reports shall be filed with the District Manager within 30 days after the work is completed.

1. Progress reports, form 3160-5 "Sundry Notices and Reports on Wells", must include complete information concerning:

a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.

b. Temperature or bond log must be submitted for each well where the casing cement was not circulated to the surface.

h. Auxiliary equipment to be used is as follows:

1. Kelly cock
2. A bit float
3. A sub with full opening valve.

**5. Drilling Fluids Program:**

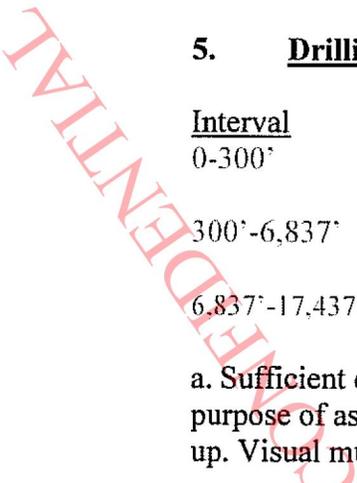
<u>Interval</u>	<u>Type</u>	<u>Wt. (ppg)</u>	<u>Viscosity</u>	<u>pH</u>	<u>Water Loss</u>	<u>Remarks</u>
0-300'	Fresh Water	8.33	1	7	NA	
300'-6,837'	Fresh Water	8.33	1	7	NA	
6,837'-17,437'	Fresh Water /DAP	8.33 -12.5	30-40	8	12-20	

a. Sufficient quantities of mud material will be maintained on site or be readily available for the purpose of assuring well control. SPR will be recorded on a daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

b. No chromate additives will be used in the mud system on Federal lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

c. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well.

d. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.



## 6. Evaluation Program

The anticipated type and amount of testing, logging and coring are as follows:

a. No drill stem tests are anticipated, if DST's are run, the following requirements will be adhered to:

Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer (AO). However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DST's may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

b. The logging program will consist of Schlumberger Platform Express (or equivalent) to be run from base of surface casing to TD.

c. No cores are anticipated.

d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted no later than 30 days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well tested 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. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

e. The anticipated completion program is as follows: Perform multistage fracs and complete all productive zones present in the wellbore. Produce all zones commingled.

f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

## 7. Abnormal Temperatures and Pressures

a. The expected bottom hole pressure is 10,408 psi. The maximum bottom hole temperature anticipated is 312.25 degrees Fahrenheit.

b. No hydrogen sulfide gas is anticipated. Abnormal pressures will be controlled with mud weight and 10,000# BOP and rotating head.

**8. Anticipated Starting Dates and Notifications of Operations**

a. Drilling is anticipated to commence immediately upon approval

b. It is anticipated that the drilling of this well will take approximately 55 days.

c. The BLM in Vernal, Utah shall be notified of the anticipated date of location construction and anticipated spud date.

d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior to approval from the AO will be obtained and notification given before resuming operations.

e. The spud date will be reported orally to the AO within 48 hours of spudding. If the spudding occurs on a weekend or holiday, the report will be submitted via voice mail and/or e-mail to the AO.

f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with Vernal BLM Office, 170 South 500 East, Vernal, Utah, 84078.

g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual or undesirable events shall be reported promptly to the AO in accordance with the requirements of NTL-3A or its revision.

h. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, or prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

i. Should the well be successfully completed for production, the AO will be notified when the well is placed on producing status. Written notification, e-mail or otherwise, will be sent no later than 5 days following the date on which the well is placed on production.

j. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

k. Pursuant to NTL-4A lessees or operators are authorized to vent/flare gas during initial well evaluation test, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day authorized test period.

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l. A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9.d.), shall be submitted to the BLM, Vernal Field Office within 60 days of installation or first production whichever occurs first. All site security regulations as specified in Onshore Order No.3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b.4.).

m. A first production conference will be scheduled within 15 days after receipt of the first production notice.

n. No well abandonment operations will commence without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5 will be filed within 30 days following the completion of the well for abandonment. The report will indicate where plugs were placed and the current status of the surface restoration. Final abandonment will not be approved until the surface reclamation work has been completed to the satisfaction of the AO.

o. Pursuant to Onshore Oil and Gas Order No.1, lessees and operators have the responsibility of operating in a manner which conforms with the applicable Federal laws and regulations and with the State and local laws and regulations to the extent that such laws are applicable to operations on Federal lands.

Bureau of Land Management  
170 South 500 East  
Vernal, Utah 84078

Phone: (435)781-4400

Fax: (435)781-4410

After Hours:

Michael Lee Petroleum Engineer (435)828-4470

Matt Baker Petroleum Engineer (435)828-7875

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**Gasco Production Company**  
Wilkin Ridge 13-23-10-17  
NW/SW, Section #23, Township10S, Range17E  
Duchesne, Utah  
Lease No. UTU- #74401

ONSHORE OIL & GAS ORDER NO. 1

**Notification Requirements**

Location Construction-	48 hours prior to construction of location and access roads
Location completion-	prior to moving on with drilling rig.
Spud Notice-	at least 24 hours prior to spudding the well.
Casing String and Cementing-	24 hours notice prior to running casing and cementing.
BOP and Related Equipment-	24 hours prior to initiating pressure tests.
First Production Notice-	Within 5 business days after new well begins or production resumes after well has been off production for more than 90 days.

The onsite inspection for the subject well site will be conducted. Weather conditions, open ground and COA's will be noted and implemented prior to any site disturbance. Attendance at the onsite will be the following individuals:

Natural Resource Specialist	Bureau of Land Management	
Wildlife Biologist	Bureau of Land Management	
Shon McKinnon	Permit Consultant	Gasco Production Company
Surveyor	Uintah Engineer and Land Surveying	

**1. Existing Roads**

See Attached Topographic Map "A".

Description of travel from Topos.

**2. Planned Access Road**

See Attached Topographic Map "B" for location of the proposed access road.

**3. Location of Existing Wells**

See Attached Topographic Map "C"

a. Producing Wells -

b. Abandoned Wells -

**4. Location of Tank Batteries and Production Facilities**

a. All permanent surface equipment will be painted to BLM and UDOGM specifications.

b. Storage tanks batteries will be surrounded by containment dike of sufficient capacity to contain at a minimum, the entire contents of the largest tank within the contained area, unless more stringent requirements are necessary as notified by the AO.

c. A production layout will be submitted via sundry upon proven productivity of the well.

d. All loading lines will be placed inside the berm/dike surrounding the tank battery.

e. A Gas Meter Run will be placed within 500 ft. of the wellhead. Meter runs will be housed. The oil and gas measurement equipment will be installed on the well location.

Measurement equipment will be calibrated in place prior to any deliveries. Tests for accuracy will be conducted monthly for the first three months on new installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the calibration reports will be submitted to the Vernal Field Office.

f. Any necessary pits will be properly fenced to prevent any wildlife entry.

g. The access road will be maintained in a safe, usable condition conducive to the climate and seasonal conditions in order to accommodate daily operation of the well and prevent erosion.

h. Pipelines, up to 6" steel or poly, will follow the proposed access as detailed in attached Topo Map "D". The pipeline will be laid on the surface except road crossings where they will be buried to a depth of 3'-5'. The method of coupling will be welded. Associated pipeline components, such as risers, pig launchers/catchers, meters, valves, etc. will be contained within the 30' needed for construction of the pipeline.

5. **Location and Type of Water**

- a. Water will come from: Water Right No. 41-3530.
- b. Water will be hauled by commercial transport over the access roads shown on Attached Maps "A" and "B".
- c. No water well will be drilled on this lease.

6. **Source of Construction Material**

- a. Any gravel used will be obtained from a commercial source.
- b. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2.3.
- c. No construction materials will be used from Federal lands.

7. **Methods of Handling Waste Disposal**

- a. the reserve pit will be lined with at least 16 mil liner. Unless otherwise specified by BLM or UDOGM
- b. All trash will be contained in an enclosed trash container through the drilling, completion, and facility construction phases and its contents removed and hauled to an approved disposal sight as needed.
- c. A chemical porta-toilet will be furnished through the drilling, and completion phases.
- d. After first production, produced waste water will be confined to an unlined pit or storage tank for a period not to exceed 90 days. During the 90 day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval.
- e. Drill cuttings are to be contained and buried in the reserve pit.
- f. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.

8. **Ancillary Facilities**

There are no airstrips, camps or other facilities planned during the drilling of this well except for those facilities needed for drilling rig personal, service providers and company representatives.

9. **Well Site Layout**

See attached Location Layout Diagram

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**10. Plans for Restoration of Surface**

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, materials, trash and debris not required for production.
- b. Upon completion, any hydrocarbon within the reserve pit will be removed in accordance with 43 CFR 3162.7-1.
- c. The reserve pit will be backfilled and reclaimed within 120 days from the well completion. The reserve pit liner will be perforated and excess liner removed before backfilling. Alternatively, the pit will be pumped dry, the liner folded into the pit and buried to a minimum of 4' deep.
- d. That portion of the location not needed for production facilities or operations, or any disturbed areas upon final plug and abandonment, will be re-contoured to approximate natural contours and seeded with a seed mixture and procedure specified by the AO. Additionally, the topsoil pile will be seeded with the same mixture and procedure as specified.

**11. Surface Ownership**

The proposed access road and well pad is on lands managed by the Bureau of Land Management.

**12. Other Information**

- a. An archeological survey will be conducted by an authorized Archeological Consultant prior to any disturbance based on BLM and UDOGM guidance.
- b. If historic or archeological materials are uncovered during construction, the operator will immediately stop work and contact the AO.
- c. The operator will control noxious weeds along associated well pad, roads, pipelines, and surface equipment. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted and approved prior to the application of pesticides or herbicides.
- d. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal lands after the conclusion of drilling operations or at any other time without BLM authorization.
- e. All lease and unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notices to Lessees. The operator is fully responsible for the actions of his subcontractors.
- f. A complete copy of the APD shall be on location during construction and drilling of this site.

**Water Disposal**

Immediately upon first production all produced water will be confined to a steel storage tank. Water will be disposed of via truck transport to a State of Utah approved disposal site, such as Brennan Bottom.

**Wildlife Timing Stipulations** Any required actions or planning based on state or federal agencies will be implemented.

**13. Lessee's or Operators Representative**

**Gasco Production Company**  
Roger Knight EHS Representative  
8 Inverness Drive East, Suite 100  
Englewood, CO 80112  
(303)483-0044

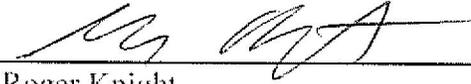
**Shon McKinnon (Permit Coordinator)**  
PO Box 189  
Myton, Utah 84052  
(435)823-8061  
(435)636-3336

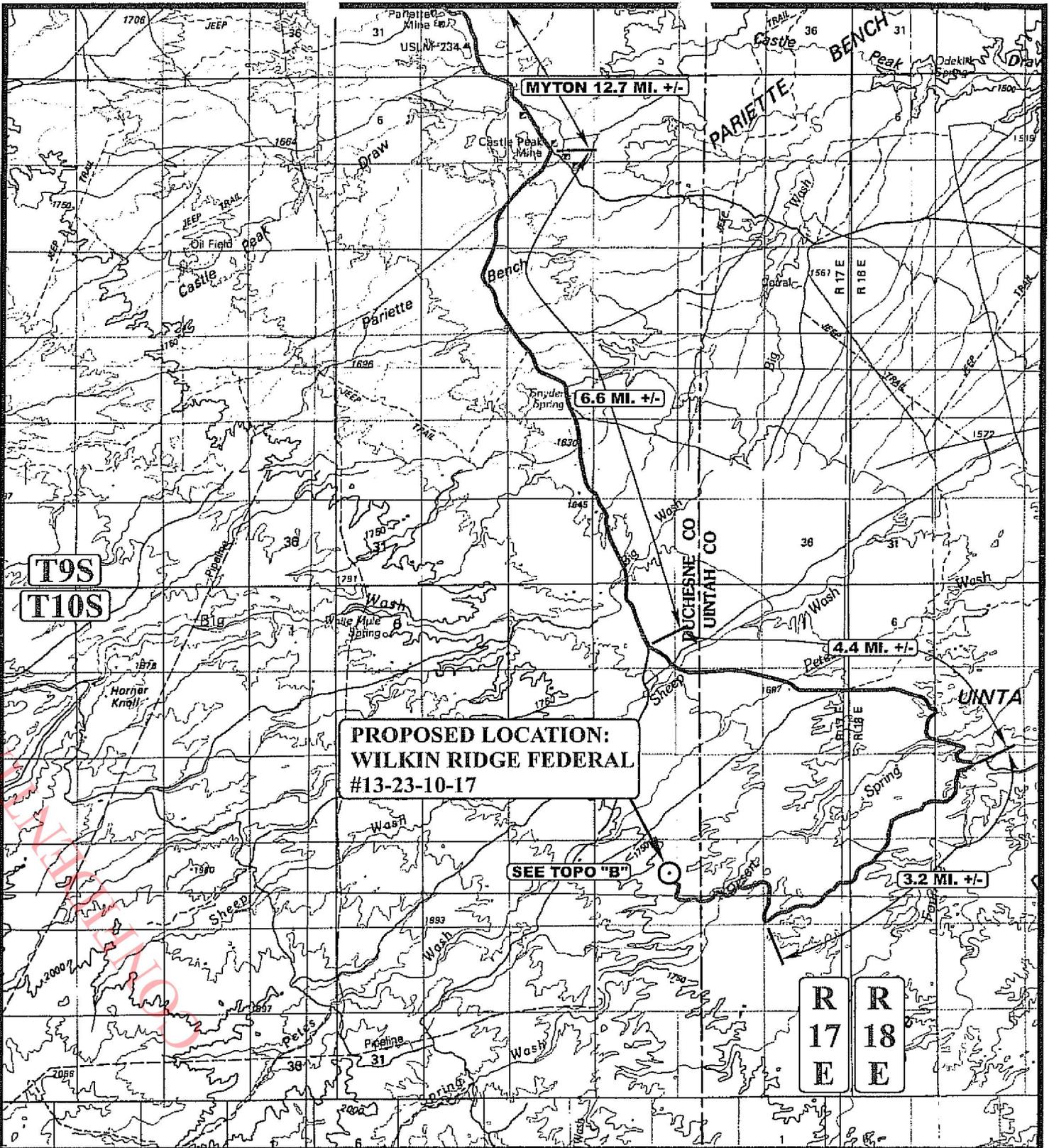
**Certification**

Please be advised that *Gasco Production Company* is considered to be the operator of the *Well Wilkin Ridge Federal 13-23-10-17, NW/SW Section 23, T10S, R17E, Lease No. UTU-74407, Duchesne County, Utah;* and is responsible under the term and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #. UT-1233

I hereby certify that the proposed drill site and access road have been inspected and I am familiar with the conditions that currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Gasco Production Company its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. The statement is subject to the provisions of 18 U.S.C. 1000 for the filing of a false statement.

1-19-10  
Date

  
\_\_\_\_\_  
Roger Knight  
Gasco Production Company



**PROPOSED LOCATION:  
WILKIN RIDGE FEDERAL  
#13-23-10-17**

SEE TOPO "B"

**R 17  
E**  
**R 18  
E**

**LEGEND:**

○ PROPOSED LOCATION



**GASCO PRODUCTION COMPANY**

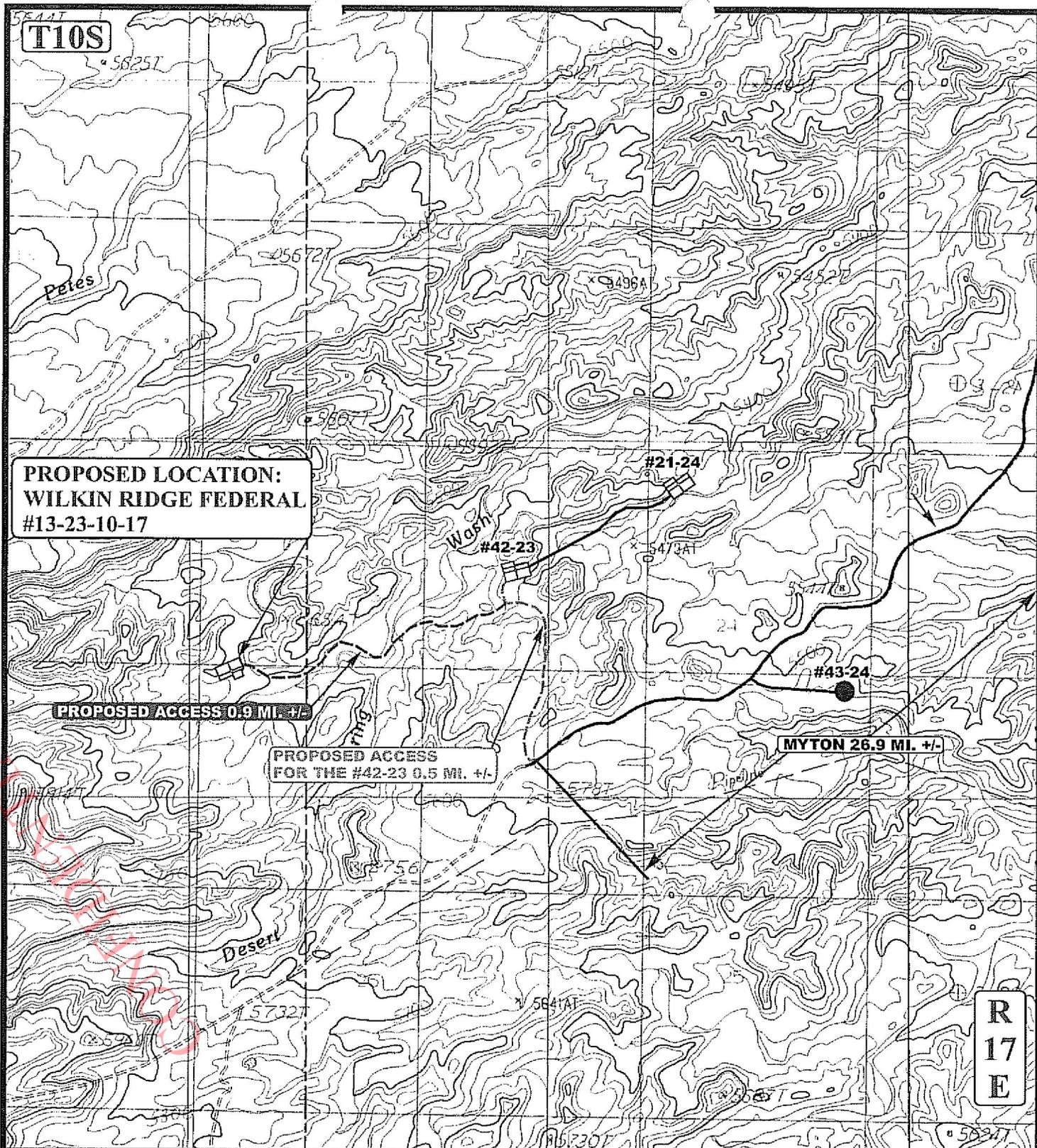
**WILKIN RIDGE FEDERAL #13-23-10-17  
SECTION 23, T10S, R17E, S.L.B.&M.  
1796' FSL 671' FWL**

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

**TOPOGRAPHIC** 04 01 08  
 MAP MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: D.P. REVISED: 00-00-00



T10S



R  
17  
E

**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



**GASCO PRODUCTION COMPANY**

WILKIN RIDGE FEDERAL #13-23-10-17  
 SECTION 23, T10S, R17E, S.L.B.&M.  
 1796' FSL 671' FWL

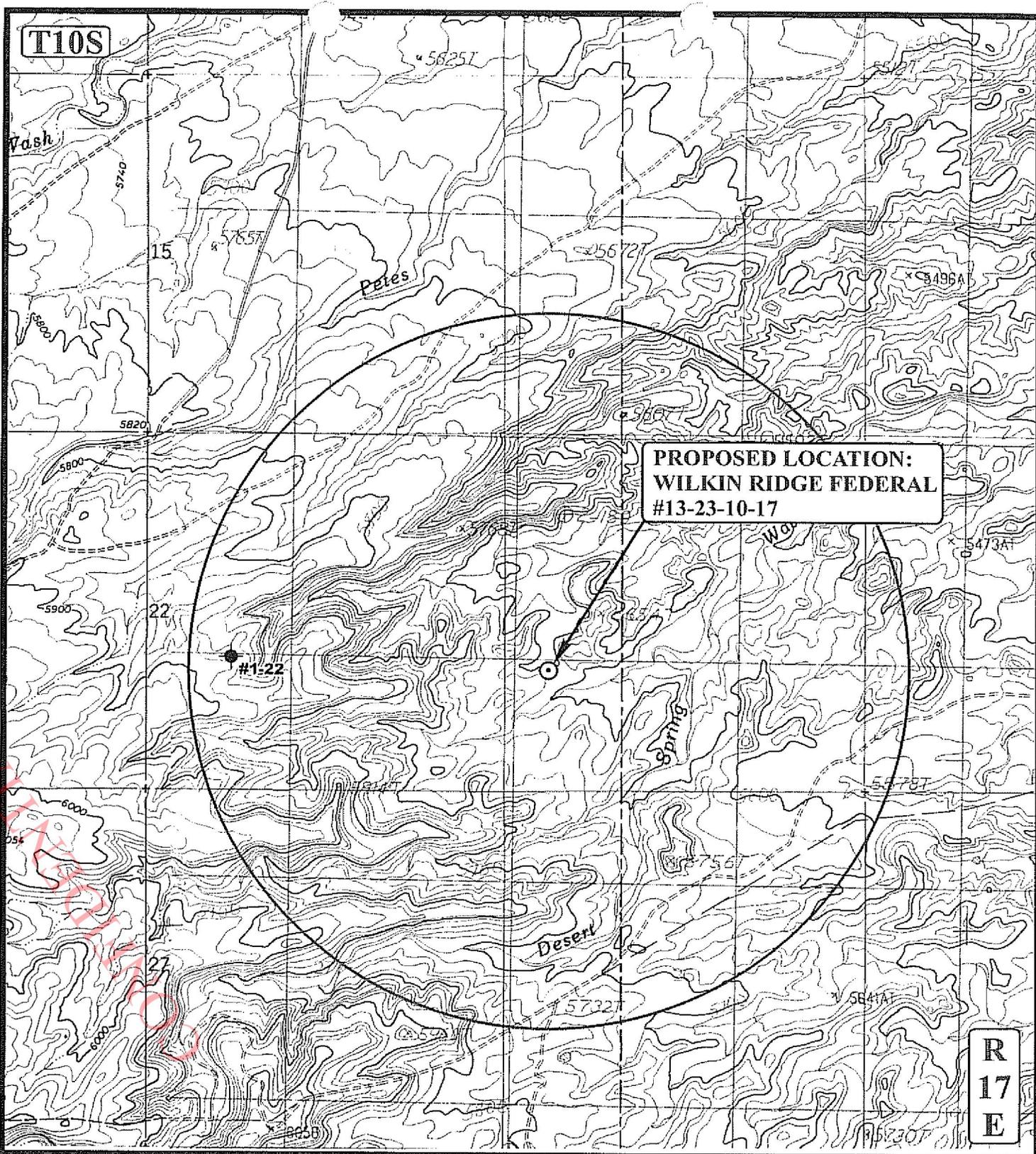


Utah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC MAP	04	01	08
	MONTH	DAY	YEAR
SCALE: 1" = 2000'	DRAWN BY: D.P.		REVISED: 00-00-00



'APIWellNo:43013502210000'



**PROPOSED LOCATION:  
WILKIN RIDGE FEDERAL  
#13-23-10-17**

**R  
17  
E**

**LEGEND:**

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

**GASCO PRODUCTION COMPANY**

**WILKIN RIDGE FEDERAL #13-23-10-17  
SECTION 23, T10S, R17E, S.L.B.&M.  
1796' FSL 671' FWL**



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

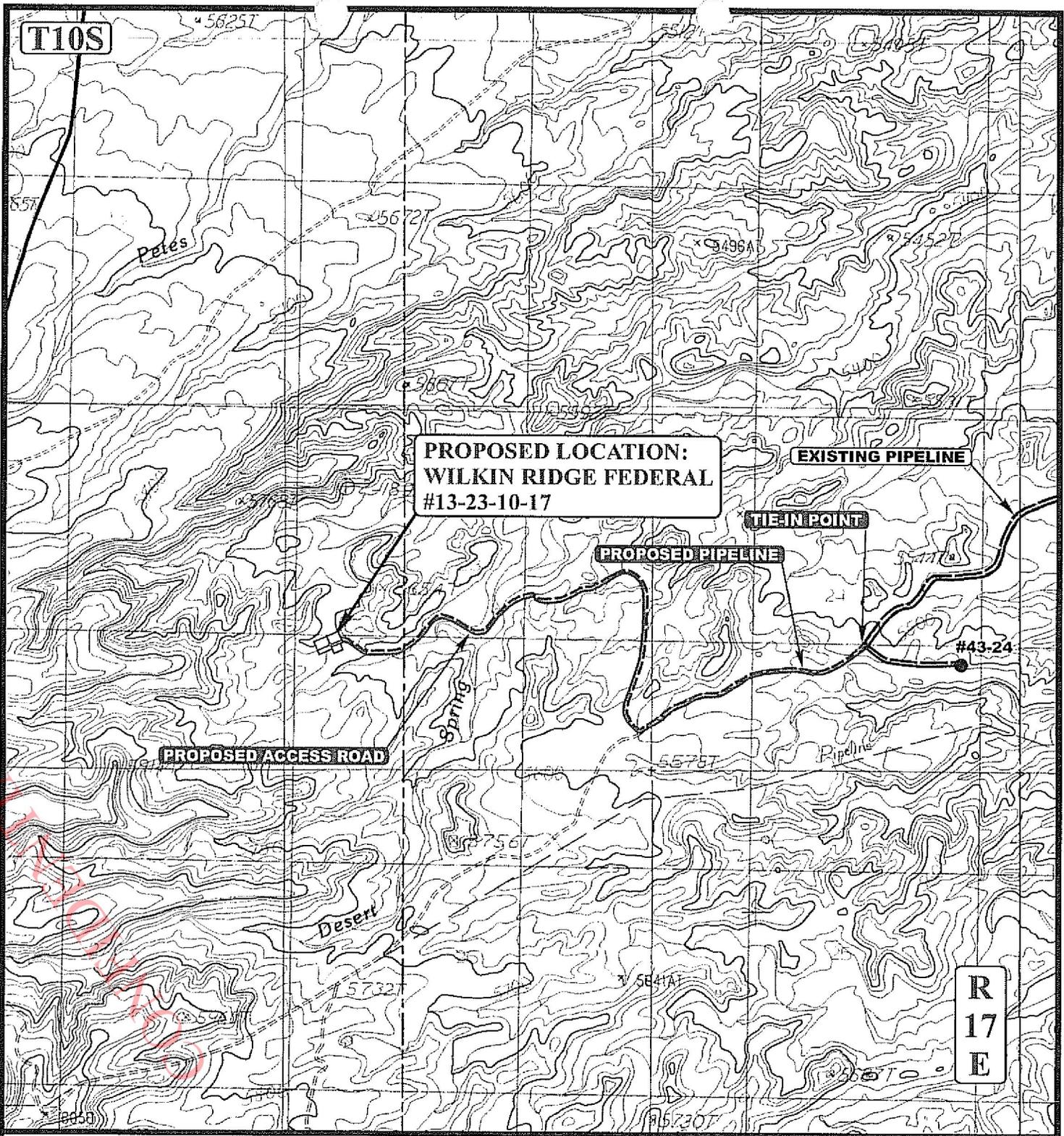


**TOPOGRAPHIC  
MAP**

**04 | 01 | 08**  
MONTH | DAY | YEAR

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





**PROPOSED LOCATION:  
WILKIN RIDGE FEDERAL  
#13-23-10-17**

**EXISTING PIPELINE**

**TIE-IN POINT**

**PROPOSED PIPELINE**

**#43-24**

**PROPOSED ACCESS ROAD**

**R  
17  
E**

**APPROXIMATE TOTAL PIPELINE DISTANCE = 10,830' +/-**

**LEGEND:**

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



**GASCO PRODUCTION COMPANY**

**WILKIN RIDGE FEDERAL #13-23-10-17  
SECTION 23, T10S, R17E, S.L.B.&M.  
1796' FSL 671' FWL**



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

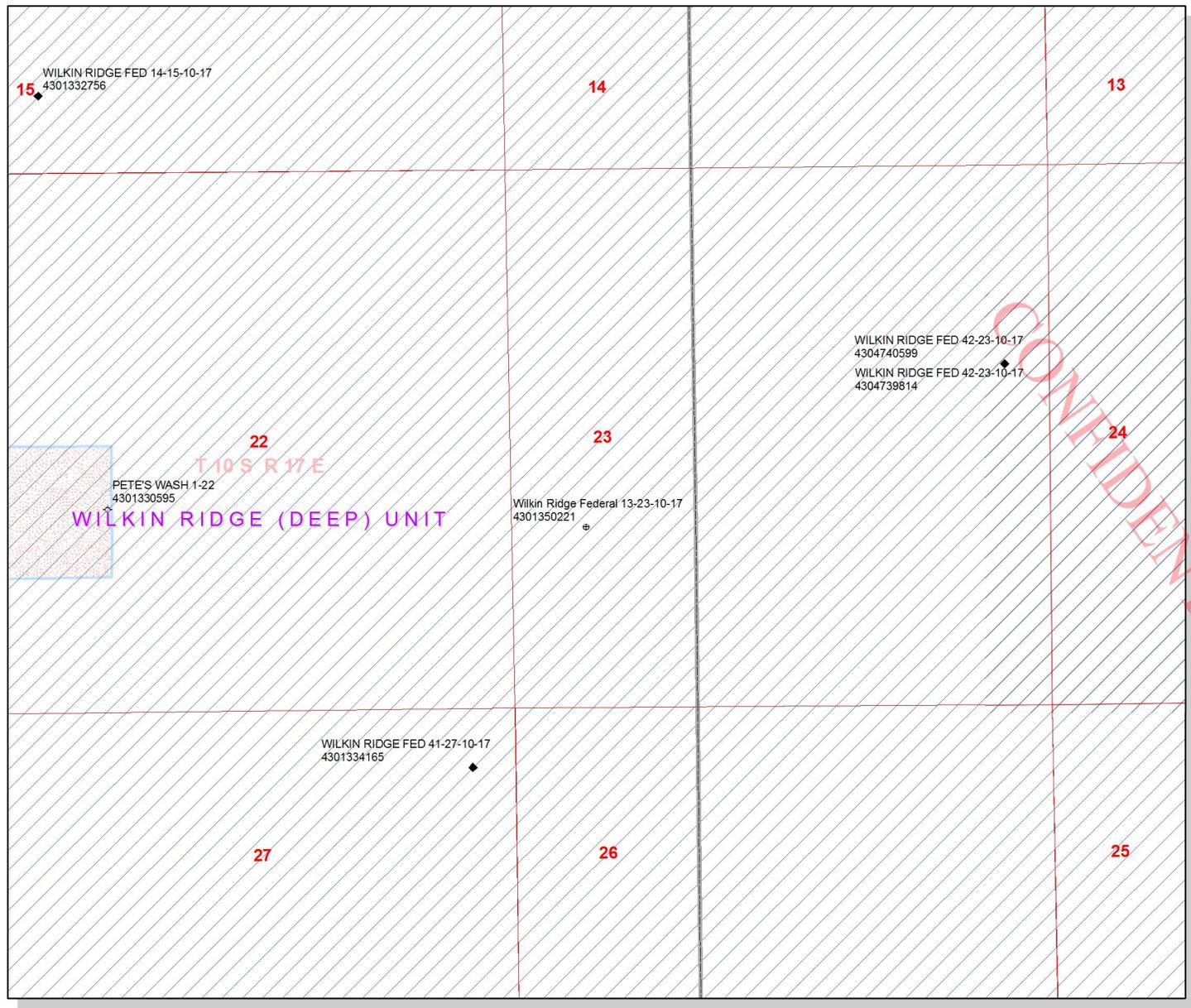
**TOPOGRAPHIC MAP**

**04 01 08**  
MONTH DAY YEAR

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



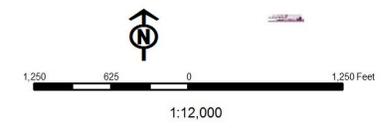
APIW e|No: 43013502210000



**API Number: 4301350221**  
**Well Name: Wilkin Ridge Federal 13-23-10-17**  
**Township 10.0 S Range 17.0 E Section 23**  
**Meridian: SLBM**  
 Operator: GASCO PRODUCTION COMPANY

Map Prepared:  
 Map Produced by Diana Mason

- |               |                                    |
|---------------|------------------------------------|
| <b>Units</b>  | <b>Wells Query</b>                 |
| <b>STATUS</b> | <b>Status</b>                      |
| ACTIVE        | APD - Approved Permit              |
| EXPLORATORY   | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE   | GIW - Gas Injection                |
| NF PP OIL     | GS - Gas Storage                   |
| NF SECONDARY  | LA - Location Abandoned            |
| PI OIL        | LOC - New Location                 |
| PP GAS        | OPS - Operation Suspended          |
| PP GEOTHERML  | PA - Plugged Abandoned             |
| PP OIL        | PGW - Producing Gas Well           |
| SECONDARY     | POW - Producing Oil Well           |
| TERMINATED    | RET - Returned APD                 |
| <b>STATUS</b> | SGW - Shut-in Gas Well             |
| Unknown       | SOW - Shut-in Oil Well             |
| ABANDONED     | TA - Temp Abandoned                |
| ACTIVE        | TW - Test Well                     |
| COMBINED      | WDW - Water Disposal               |
| INACTIVE      | WW - Water Injection Well          |
| STORAGE       | WSW - Water Supply Well            |
| TERMINATED    |                                    |
| Sections      |                                    |
| Township      |                                    |



CONFIDENTIAL

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

January 25, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Wilkin Ridge Unit,  
Duchesne and Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2010 within the Wilkin Ridge Unit, Duchesne County, Utah.

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

(Proposed PZ DAKOTA)

43-013-50221 Wilkin Ridge Fed 13-23-10-17 Sec 23 T10S R17E 1796 FSL 0671 FWL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File - Wilkin Ridge Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:1-25-10

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

**APD RECEIVED:** 1/18/2010

**API NO. ASSIGNED:** 43013502210000

**WELL NAME:** Wilkin Ridge Federal 13-23-10-17

**OPERATOR:** GASCO PRODUCTION COMPANY (N2575)

**PHONE NUMBER:** 303 996-1803

**CONTACT:** Roger Knight

**PROPOSED LOCATION:** NWSW 23 100S 170E

**Permit Tech Review:**

**SURFACE:** 1796 FSL 0671 FWL

**Engineering Review:**

**BOTTOM:** 1796 FSL 0671 FWL

**Geology Review:**

**COUNTY:** DUCHESNE

**LATITUDE:** 39.92714

**LONGITUDE:** -109.98014

**UTM SURF EASTINGS:** 587150.00

**NORTHINGS:** 4419958.00

**FIELD NAME:** WILDCAT

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU-74401

**PROPOSED PRODUCING FORMATION(S):** DAKOTA

**SURFACE OWNER:** 1 - Federal

**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- PLAT**
- Bond:** FEDERAL - UT-1233
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** 41-3530
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

**Commingling Approved**

**LOCATION AND SITING:**

- R649-2-3.**  
**Unit:** WILKIN RIDGE DEEP
- R649-3-2. General**
- R649-3-3. Exception**
- Drilling Unit**  
**Board Cause No:** R649-3-2
- Effective Date:**
- Siting:**
- R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:** 4 - Federal Approval - dmason  
23 - Spacing - dmason



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

## Permit To Drill

\*\*\*\*\*

**Well Name:** Wilkin Ridge Federal 13-23-10-17  
**API Well Number:** 43013502210000  
**Lease Number:** UTU-74401  
**Surface Owner:** FEDERAL  
**Approval Date:** 1/26/2010

**Issued to:**

GASCO PRODUCTION COMPANY, 8 Inverness Dr. East, Suite 100, Englewood, CO 80112

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-2. The expected producing formation or pool is the DAKOTA Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

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

**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.

**Conditions of Approval:**

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

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

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

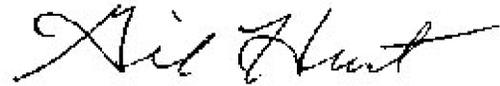
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "Gil Hunt". The signature is fluid and cursive, with a long horizontal stroke at the end.

Gil Hunt  
Associate Director, Oil & Gas

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

**FORM 9**

**5. LEASE DESIGNATION AND SERIAL NUMBER:**  
UTU-74401

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7. UNIT or CA AGREEMENT NAME:**  
WILKIN RIDGE DEEP

**1. TYPE OF WELL**  
Gas Well

**8. WELL NAME and NUMBER:**  
WILKIN RIDGE FED 13-23-10-17

**2. NAME OF OPERATOR:**  
GASCO PRODUCTION COMPANY

**9. API NUMBER:**  
43013502210000

**3. ADDRESS OF OPERATOR:**  
8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112

**PHONE NUMBER:**  
303 483-0044 Ext

**9. FIELD and POOL or WILDCAT:**  
WILDCAT

**4. LOCATION OF WELL**  
**FOOTAGES AT SURFACE:**  
1796 FSL 0671 FWL  
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**  
Qtr/Qtr: NWSW Section: 23 Township: 10.0S Range: 17.0E Meridian: S

**COUNTY:**  
DUCHESNE

**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"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/26/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

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

**Date:** 01/27/2011

**By:** 

<b>NAME (PLEASE PRINT)</b> Roger Knight	<b>PHONE NUMBER</b> 303 996-1803	<b>TITLE</b> EHS Supervisor
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/26/2011	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013502210000**

**API:** 43013502210000

**Well Name:** WILKIN RIDGE FED 13-23-10-17

**Location:** 1796 FSL 0671 FWL QTR NWSW SEC 23 TWP 100S RNG 170E MER S

**Company Permit Issued to:** GASCO PRODUCTION COMPANY

**Date Original Permit Issued:** 1/26/2010

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 rightof- 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

**Signature:** Roger Knight

**Date:** 1/26/2011

**Title:** EHS Supervisor **Representing:** GASCO PRODUCTION COMPANY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 09 2011

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

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

BLM

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

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU74401
2. Name of Operator GASCO PRODUCTION COMPANY Contact: JESSICA BERG E-Mail: jberg@gascoenergy.com		6. If Indian, Allottee or Tribe Name
3a. Address 8 INVERNESS DRIVE EAST, SUITE 100 ENGLEWOOD, CO 80112-5625	3b. Phone No. (include area code) Ph: 303-996-1805	7. If Unit or CA/Agreement, Name and/or No. UTU81153X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T10S R17E NWSW 1796FSL 671FWL		8. Well Name and No. WILKIN RIDGE FEDERAL 13-23-10-17
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. API Well No. 43-013-50221-00-X1
TYPE OF SUBMISSION		10. Field and Pool, or Exploratory WILKIN RIDGE
TYPE OF ACTION		11. County or Parish, and State UINTAH COUNTY, UT

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

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 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.)

Gasco would like to request a two year extension on this permit from the date it is due to expire, 2/17/2011.

RECEIVED

APR 18 2011

DIV OF OIL, GAS & MINING

CONDITIONS OF APPROVAL ATTACHED

VERNAL FIELD OFFICE	
ENG. (JD)	APR 14 2011
GEOL.	
E.S.	
PET.	
RECL.	

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

**Electronic Submission #102247 verified by the BLM Well Information System For GASCO PRODUCTION COMPANY, sent to the Vernal Committed to AFMSS for processing by ROBIN R. HANSEN on 02/09/2011 (11RRH1142SE)**

Name (Printed/Typed) JESSICA BERG	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 02/09/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By	Title Assistant Field Manager Lands & Mineral Resources	Date APR 14 2011
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 VERNAL FIELD OFFICE

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

UDOGM

\*\* BLM REVISED \*\*

# CONDITIONS OF APPROVAL

## Gasco Production Company

### Notice of Intent APD Extension

**Lease:** UTU-74401  
**Well:** Wilkin Ridge Federal 13-23-10-17  
**Location:** NWSW Sec 23-T10S-R17E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 2/16/13.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Carey Doyle of this office at (435) 781-3406.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	
<b>1. TYPE OF WELL</b> Gas Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74401
<b>2. NAME OF OPERATOR:</b> GASCO PRODUCTION COMPANY	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112	<b>7. UNIT or CA AGREEMENT NAME:</b> WILKIN RIDGE DEEP
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1796 FSL 0671 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 23 Township: 10.0S Range: 17.0E Meridian: S	<b>8. WELL NAME and NUMBER:</b> WILKIN RIDGE FED 13-23-10-17
<b>PHONE NUMBER:</b> 303 483-0044 Ext	<b>9. API NUMBER:</b> 43013502210000
<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT	<b>COUNTY:</b> DUCHESNE
	<b>STATE:</b> UTAH

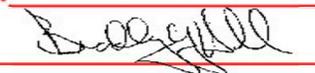
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>1/26/2013</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

**Date:** January 26, 2012

**By:** 

<b>NAME (PLEASE PRINT)</b> Roger Knight	<b>PHONE NUMBER</b> 303 996-1803	<b>TITLE</b> EHS Supervisor
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/23/2012	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013502210000**

API: 43013502210000

Well Name: WILKIN RIDGE FED 13-23-10-17

Location: 1796 FSL 0671 FWL QTR NWSW SEC 23 TWNP 100S RNG 170E MER S

Company Permit Issued to: GASCO PRODUCTION COMPANY

Date Original Permit Issued: 1/26/2010

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 rightof- 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

Signature: Roger Knight

Date: 1/23/2012

Title: EHS Supervisor Representing: GASCO PRODUCTION COMPANY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

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

FEB 08 2012

**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.*

**BLM**

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

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU74401
2. Name of Operator GASCO PRODUCTION COMPANY Contact: JESSICA BERG E-Mail: jberg@gascoenergy.com		6. If Indian, Allottee or Tribe Name
3a. Address 8 INVERNESS DRIVE EAST, SUITE 100 ENGLEWOOD, CO 80112-5625	3b. Phone No. (include area code) Ph: 303-996-1805	7. If Unit or CA/Agreement, Name and/or No. UTU81153X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T10S R17E NWSW 1796FSL 671FWL		8. Well Name and No. WILKIN RIDGE FEDERAL 13-23-10-17
		9. API Well No. 43-013-50221-00-X1
		10. Field and Pool, or Exploratory WILKIN RIDGE
		11. County or Parish, and State UINTAH COUNTY, UT

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

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

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

Gasco requests a two year extension to this APD from the date it is due to expire, 2/11/2012.

**VERNAL FIELD OFFICE**  
ENG. RAE 3/9/12  
GEOL. \_\_\_\_\_  
E.S. \_\_\_\_\_  
PET. \_\_\_\_\_  
ECL. \_\_\_\_\_

CONDITIONS OF APPROVAL ATTACHED

**RECEIVED**  
MAR 27 2012

DIV. OF OIL, GAS & MINING

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

Electronic Submission #130497 verified by the BLM Well Information System  
For GASCO PRODUCTION COMPANY, sent to the Vernal  
Committed to AFMSS for processing by ROBIN R. HANSEN on 03/02/2012 (12RRH1938SE)

Name (Printed/Typed) JESSICA BERG	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 02/08/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>[Signature]</u>	Title Assistant Field Manager Lands & Mineral Resources	Date MAR 13 2012
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 VERNAL FIELD OFFICE

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

**UDOGM**

\*\* BLM REVISED \*\*

7 PRL11938 SE

# CONDITIONS OF APPROVAL

## GASCO Production Company

### Notice of Intent APD Extension

**Lease:** UTU-81153X  
**Well:** Wilkin Ridge Federal 13-23-10-17  
**Location:** NWSW Sec 23 T10S R17E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 02/11/2014.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-74401
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR:	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: _____ PHONE NUMBER: _____ _____ Ext	8. WELL NAME and NUMBER: WILKIN RIDGE FED 13-23-10-17
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1796 FSL 0671 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 23 Township: 10.0S Range: 17.0E Meridian: S	9. API NUMBER: 43013502210000
	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: DUCHESNE
	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"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/26/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

Date: February 19, 2013

By: 

NAME (PLEASE PRINT) Roger Knight	PHONE NUMBER 303 996-1803	TITLE EHS Supervisor
SIGNATURE N/A	DATE 1/25/2013	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013502210000**

API: 43013502210000

Well Name: WILKIN RIDGE FED 13-23-10-17

Location: 1796 FSL 0671 FWL QTR NWSW SEC 23 TWNP 100S RNG 170E MER S

Company Permit Issued to: GASCO PRODUCTION COMPANY

Date Original Permit Issued: 1/26/2010

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 rightof- 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

Signature: Roger Knight

Date: 1/25/2013

Title: EHS Supervisor Representing: GASCO PRODUCTION COMPANY



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Utah State Office

440 West 200 South, Suite 500

Salt Lake City, UT 84101

<http://www.blm.gov/ut/st/en.html>

**RECEIVED**  
**FEB 07 2013**  
DIV. OF OIL, GAS & MINING

**FEB 05 2013**

IN REPLY REFER TO:  
3180 (UTU81153X)  
UT-922000

Ms. Frankie L. Martinez  
Gasco Energy, Inc.  
7979 East Tufts Avenue, Suite 1150  
Denver, Colorado 80237

Re: Automatic Contraction  
Wilkin Ridge (Deep) Unit  
Uintah and Duchesne Counties, Utah

Dear Ms. Martinez:

Your letter of January 24, 2013, describes the lands automatically eliminated effective September 17, 2012, from the Wilkin Ridge (Deep) Unit Area, Uintah and Duchesne Counties, Utah, pursuant to Section 2(e) of the unit agreement and requests our concurrence. The lands you have described contain 44,447.23 acres, more or less, and constitute all legal subdivisions, no parts of which are included in the Wilkin Ridge (Deep) Participating Areas "A" and "B". As a result of the automatic contraction, the unit is reduced to 480.00 acres.

The following Federal Leases are entirely eliminated from the unit area:

UTU56947	UTU75084	UTU77063	UTU88144
UTU68387	UTU75085	UTU78214	UTU88204
UTU68620*	UTU75086	UTU78215	
UTU74400	UTU75087	UTU78216	
UTU74401	UTU75088	UTU80950	
UTU74402	UTU75235	UTU81003*	
UTU74403	UTU75236	UTU81706*	
UTU74407	UTU75514	UTU82704	
UTU74408	UTU75515	UTU82705	
UTU74836	UTU75672	UTU84262	Tract No. 43 UNLEASED*
UTU74968	UTU76031	UTU84263	
UTU74971	UTU76032	UTU84264	
UTU75079	UTU76256	UTU84265	
UTU75080	UTU76258	UTU88068	
UTU75081	UTU76716	UTU88069	
UTU75082	UTU76717	UTU88072	

\*Indicates non-committed lease

The following Federal Leases are partially eliminated from the unit area:

UTU65632

UTU75083

You have complied with the requirements of Section 2(e), provided you promptly notify all interested parties. If you have any questions, please contact Judy Nordstrom at (801) 539-4108.

Sincerely,

Handwritten signature of Roger L. Bankert in black ink.

Roger L. Bankert  
Chief, Branch of Minerals

Enclosure

cc: UDOGM  
SITLA  
ONRR w/Exhibit "B" (Attn: Nancy McCarthy)  
(UTG01) BLM FOM - Vernal w/enclosure

**RECEIVED**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SEP 22 2008

APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>UTU-74401</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>N/A</b>
2. Name of Operator <b>Gasco Production Company</b>		7. If Unit or CA Agreement, Name and No. <b>Wilkin Ridge Unit</b>
303-483-0044 <b>8 Inverness Drive East, Suite 100</b> <b>Englewood, CO 80112</b>		8. Lease Name and Well No. <b>Wilkin Ridge Fed #13-23-10-17</b>
3. Name of Agent <b>Permitco Inc. - Agent</b>		9. API Well No. <b>43-013-50021</b>
303/857-9999 <b>P.O. Box 99</b> <b>Eastlake, CO 80614</b>		10. Field and Pool, or Exploratory <b>Wilkin Ridge</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>1796' FSL and 671' FWL</b> At proposed prod. zone <b>NW SW</b>		11. Sec., T., R., M., or Blk, and Survey or Area <b>Section 23, T10S - R17E</b>
14. Distance in miles and direction from nearest town or post office* <b>Approximately 28.3 miles southeast of Myton, UT</b>		12. County or Parish <b>Duchesne</b>
		13. State <b>UT</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>671'</b>	16. No. of Acres in lease <b>1,440.00</b>	17. Spacing Unit dedicated to this well <b>N/A Within Unit</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>None</b>	19. Proposed Depth <b>17,437'</b>	20. BLM/BIA Bond No. on file <b>UT-1233</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5611' GL</b>	22. Approximate date work will start* <b>October 1, 2008</b>	23. Estimated duration <b>55 Days</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:

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

**CONFIDENTIAL-TIGHT HOLE**

25. Signature <i>Venessa Langmacher</i>	Name (Printed/Typed) <b>Venessa Langmacher</b>	Date <b>9/18/2008</b>
Title <b>Regulatory Supervisor / Agent for Gasco Production Company</b>		
Approved by (Signature) <i>James H. Sparger</i>	Name (Printed/Typed) <b>James H. Sparger</b>	Date <b>FEB 11 2010</b>
Title <b>Assistant Field Manager</b>		
<b>ACTING Lands &amp; Mineral Resources</b>		
Office <b>VERNAL 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.

**RECEIVED**

\*(Instructions in reverse) **NOS 3-24-08**  
**AFMSS# 08PP0699A**

**MAR 16 2010**

DIV. OF OIL, GAS & MINING  
**CONDITIONS OF APPROVAL ATTACHED**

**NOTICE OF APPROVAL**

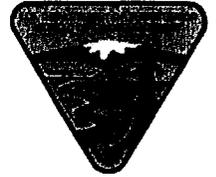


**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** Gasco Production Company  
**Well No:** Wilkin Ridge Federal 13-23-10-17  
**API No:** 43-013-50221

**Location:** NWSW, Sec. 23, T10S R17E  
**Lease No:** UTU-74401  
**Agreement:** Wilkin Ridge Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	
NRS/Enviro Scientist:	Christine Cimiluca	(435) 781-4475	
NRS/Enviro Scientist:	Lori Ford	(435) 781-4406	

**Fax: (435) 781-3420**

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

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

**NOTIFICATION REQUIREMENTS**

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

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

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

**SITE SPECIFIC CONDITIONS OF APPROVAL**

- Surface Conditions of Approval or monitoring are listed in the Surface Use Plan of the APDs.
- The operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. On BLM administered land, it is required that a Pesticide Use Proposal be submitted, approved and a permit issued prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- The operator shall construct a low water crossing along the proposed access road in order to maintain existing drainage.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt. The following seed mix shall be used:

Type		lbs./acre
Western Wheatgrass	<i>Agropyron smithii</i>	4
Needle and Threadgrass	<i>Stipa comata</i>	4
Hy-crest Crested wheatgrass	<i>Agropyron cristatum</i>	4
** Seed should be drilled; but if broadcasted double the pounds per acre used and work the solids mechanically to cover the seed.		

- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil respread over the surface; and, the surface revegetated. The following seed mix shall be used, unless BLM personnel determine that conditions have changed and another mix would be more suitable:

	Type	lbs./acre
Shadscale	<i>Atriplex confertifolia</i>	3
Winterfat	<i>Eurotia lanata</i>	3
Galleta grass	<i>Hilaria jamesii</i>	3
Indian Rice Grass	<i>Oryzopsis hymenoides</i>	3
** Seed should be drilled; but if broadcasted double the pounds per acre used and work the solids mechanically to cover the seed.		

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Electronic/mechanical mud monitoring equipment shall include from surface casing shoe to TD a; pit volume totalizer (PVT); stroke counter; and flow sensor.
- BOPE requirement for drilling production casing segment of wellbore is for a BOP 10m system. The operator is required to use '10,000' psi annular preventer for the specified BOP 10M system.
- 10M BOPE shall meet all requirements of Onshore Order #2, including an Upper and Lower kelly cock valve described as an; Upper kelly cock valve with handle available; and Lower kelly cock valve with handle available.
- Production casing (4.5") cement shall be brought up and into the surface (Intermediate) casing (9 5/8"). The minimum cement top is 6000 ft, which is above the surface (Intermediate) casing shoe (9 5/8").
- COA specification exceeds operators performance standard for top of cement (toc) stated in APD.
- A Gamma Ray well Log shall be run from the well Total Depth to the surface. A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.
- Surface (Intermediate) casing 9 5/8" cement shall be brought up and into the surface. COA specification is consistent with operators performance standard stated in APD.
- A casing shoe integrity test shall be performed before drilling more than twenty feet below the casing shoe on the Surface (intermediate) casing 9 5/8".

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil &

Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74401
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> WILKIN RIDGE FED 13-23-10-17
<b>2. NAME OF OPERATOR:</b> GASCO PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013502210000
<b>3. ADDRESS OF OPERATOR:</b> 8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112	<b>PHONE NUMBER:</b> 303 996-1805 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1796 FSL 0671 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 23 Township: 10.0S Range: 17.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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> Approximate date work will start: <b>11/1/2013</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

Gasco proposes to change the TD on this approved APD to 16,750 feet. A revised casing program, cement program, and drilling fluids program has been detailed in the attached revised drilling program to accomodate this change in TD.

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

**Date:** October 24, 2013

**By:** 

<b>NAME (PLEASE PRINT)</b> Jessica Berg	<b>PHONE NUMBER</b> 303 996-1805	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/21/2013	

**Gasco Production Company**  
**Wilkin Ridge Federal 13-23-10-17**  
**NW/SW, Section #23, Township10S, Range17E**  
**Duchesne, Utah**  
**Lease No. UTU- #74401**

ONSHORE OIL & GAS ORDER NO. 1

**Drilling Program**

**1. Estimated Tops of Important Geological Markers**

<b>Formation</b>	<b>Depth</b>	<b>Subsea</b>
Green River	855'	4,762'
Wasatch	4,837'	780'
Mesaverde	8,905'	-3,290'
Castlegate	11,465'	-5,850'
Blackhawk	11,715'	-6,100'
Kenilworth	12,245'	-6,630'
Spring Canyon	12,545'	-6,930'
Mancos	12,670'	-7,055'
TD	16,750'	-11,125'

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

<b>Substance</b>	<b>Formation</b>	<b>Depth</b>
Gas	Wasatch	5,000' - 8,905'
Gas	Mesaverde	8,905' - 11,465'
Gas	Blackhawk	11,717' - 12,670'
Gas	Mancos	12,670' - 16,750'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

**3. Pressure Control Equipment**

All well control equipment will be in accordance to Onshore Order No. 2 for 5M Systems and are as follows:

10,000# BOP with 4 ½" Pipe Rams  
10,000# BOP with Blind Rams  
5,000# Annular

Ram type preventers and associated equipment shall be tested to the approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline on pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

### **Pressure Control Equipment Continued**

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BPOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

BOP systems shall be consistent with API RP 53 Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling cement plugs.

The District Office will be notified, with sufficient lead time, in order to have a BLM representative on location during testing.

- a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not yet been chosen to drill this well, most of the equipment for this depth will utilize 5M working BOP.
- b. A choke line and kill line are to be properly installed. The kill line is not to be used as a fill-up line.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

#### 4. Proposed Casing and Cementing Program

a. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones abnormally pressured zones and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors including: presence/absence of hydrocarbons, fracture gradients, usable water zones, formation pressures, lost circulation zones, other minerals, or other unusual characteristics. All indications of usable water shall be reported.

##### b. Casing Program

	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Grade</u>	<u>Type</u>
Conductor	60'	20"	16"	H-40	ST&C
Surface	3,600'	11"	8 5/8"	N-80	LT&C
Production	16,750'	7.875	4.5	P-110	LT&C

c. Casing design subject to revision based on geologic conditions encountered.

##### d. Cement Program

	<u>Est. Top of Cement</u>	<u>Cement Type</u>	<u>Quantity</u>	<u>Yield</u>	<u>Supply Wt.</u>
Conductor	Surface	Ready Mix	80	1.18	15.6
Surface	Surface	Class G	600	3.89	11.0
		Class G	150	1.63	14.2
Production	Surface	Class G	550	2.26	12.0
		50/50 Poz	2200	1.53	14.1

e. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

f. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.

g. The following reports shall be filed with the District Manager within 30 days after the work is completed.

1. Progress reports, form 3160-5 "Sundry Notices and Reports on Wells", must include complete information concerning:

a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.

b. Temperature or bond log must be submitted for each well where the casing cement was not circulated to the surface.

h. Auxiliary equipment to be used is as follows:

1. Kelly cock
2. A bit float
3. A sub with full opening valve.

**5. Drilling Fluids Program:**

<u>Interval</u>	<u>Type</u>	<u>Wt. (ppg)</u>	<u>Viscosity</u>	<u>pH</u>	<u>Water Loss</u>	<u>Remarks</u>
0-60'	Fresh Water	8.33	1	7	NA	
60'- 3,500'	Fresh Water	8.33	1	7	NA	
3,500'-16,750'	Fresh Water /DAP	8.33 -11.5	30-40	8	12-20	

a. Sufficient quantities of mud material will be maintained on site or be readily available for the purpose of assuring well control. SPR will be recorded on a daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

b. No chromate additives will be used in the mud system on Federal lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

c. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well.

d. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

## 6. Evaluation Program

The anticipated type and amount of testing, logging and coring are as follows:

a. No drill stem tests are anticipated, if DST's are run, the following requirements will be adhered to:

Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer (AO). However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DST's may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

b. The logging program will consist of Schlumberger Platform Express (or equivalent) to be run from base of surface casing to TD.

c. No cores are anticipated.

d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted no later than 30 days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well tested 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. Samples (cuttings, fluids, and/or gases will be submitted when requested by the AO.

e. The anticipated completion program is as follows: Perform multistage fracs and complete all productive zones present in the wellbore. Produce all zones commingled.

f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

**7. Abnormal Temperatures and Pressures**

- a. The expected bottom hole pressure is 10,408 psi. The maximum bottom hole temperature anticipated is 280 degrees Fahrenheit.
- b. No hydrogen sulfide gas is anticipated. Abnormal pressures will be controlled with mud weight and 10,000# BOP and rotating head.

**8. Anticipated Starting Dates and Notifications of Operations**

- a. Drilling is anticipated to commence in 2014.
- b. It is anticipated that the drilling of this well will take approximately 35 days.
- c. The BLM in Vernal, Utah shall be notified of the anticipated date of location construction and anticipated spud date.
- d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior to approval from the AO will be obtained and notification given before resuming operations.
- e. The spud date will be reported orally to the AO within 48 hours of spudding. If the spudding occurs on a weekend or holiday, the report will be submitted via voice mail and/or e-mail to the AO.
- f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with Vernal BLM Office, 170 South 500 East, Vernal, Utah, 84078.
- g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual or undesirable events shall be reported promptly to the AO in accordance with the requirements of NTL-3A or its revision.
- h. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, or prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- i. Should the well be successfully completed for production, the AO will be notified when the well is placed on producing status. Written notification, e-mail or otherwise, will be sent no later than 5 days following the date on which the well is placed on production.
- j. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- k. Pursuant to NTL-4A lessees or operators are authorized to vent/flare gas during initial well evaluation test, not exceeding a period of 30 days or the production of 50 MMCF of gas,

whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day authorized test period.

l. A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9.d.), shall be submitted to the BLM, Vernal Field Office within 60 days of installation or first production whichever occurs first. All site security regulations as specified in Onshore Order No.3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b.4.).

m. A first production conference will be scheduled within 15 days after receipt of the first production notice.

n. No well abandonment operations will commence without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5 will be filed within 30 days following the completion of the well for abandonment. The report will indicate where plugs were placed and the current status of the surface restoration. Final abandonment will not be approved until the surface reclamation work has been completed to the satisfaction of the AO.

o. Pursuant to Onshore Oil and Gas Order No.1, lessees and operators have the responsibility of operating in a manner which conforms with the applicable Federal laws and regulations and with the State and local laws and regulations to the extent that such laws are applicable to operations on Federal lands.

Bureau of Land Management  
170 South 500 East  
Vernal, Utah 84078

Phone: (435)781-4400

Fax: (435)781-4410

After Hours:

Michael Lee Petroleum Engineer (435)828-4470

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74401
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7.UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> WILKIN RIDGE FED 13-23-10-17	
<b>2. NAME OF OPERATOR:</b> GASCO PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013502210000	
<b>3. ADDRESS OF OPERATOR:</b> 8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112	<b>PHONE NUMBER:</b> 303 996-1805 Ext	<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1796 FSL 0671 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 23 Township: 10.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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> Approximate date work will start: 1/25/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

**Date:** January 28, 2014

**By:** 

<b>NAME (PLEASE PRINT)</b> Jessica Berg	<b>PHONE NUMBER</b> 303 996-1805	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/25/2014	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013502210000**

API: 43013502210000

Well Name: WILKIN RIDGE FED 13-23-10-17

Location: 1796 FSL 0671 FWL QTR NWSW SEC 23 TWNP 100S RNG 170E MER S

Company Permit Issued to: GASCO PRODUCTION COMPANY

Date Original Permit Issued: 1/26/2010

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 rightof- 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

Signature: Jessica Berg

Date: 1/25/2014

Title: Regulatory Analyst Representing: GASCO PRODUCTION COMPANY



GARY R. HERBERT  
Governor

SPENCER J. COX  
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 2, 2015

Gasco Production Company  
7979 Tufts Ave., Suite 1150  
Denver, CO 80237

Re: APD Rescinded – Wilkin Ridge Fed 13-23-10-17, Sec. 23, T.10S, R.17E,  
Duchesne County, Utah API No. 43-013-50221

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on January 26, 2010. On January 27, 2011, January 26, 2012, February 19, 2013, October 24, 2013 and January 28, 2014 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective April 2, 2015.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal

