



September 1, 2006

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

Attn: Minerals Department

Re: All Wells  
Uintah and Duchesne Counties, Utah

Ladies and Gentlemen:

This letter is to inform you that Permitco, Inc. and Shon McKinnon are authorized to act as Agent and to sign or retrieve documents on behalf of Gasco Production Company, a wholly owned subsidiary of Gasco Energy, Inc. when necessary for filing county, state and federal permits including Onshore Order No. 1, Right of Way applications, etc., for the above mentioned wells.

It should be understood that Permitco, Inc. and Shon McKinnon are acting as Agent only in those matter stated above and are not responsible for drilling, completion, production or compliance with regulations.

Gasco Production Company agrees to accept full responsibility for operations conducted in order to drill, complete and produce the above mentioned wells.

Yours very truly,

A handwritten signature in black ink, appearing to read "Mark A. Erickson", written over a horizontal line.

Mark A. Erickson  
President and CEO

Handwritten initials "MKD" enclosed within a hand-drawn circle.



14421 County Rd. 10 • Ft. Lupton, Colorado 80621 • (303) 857-9999 • FAX (303) 857-0577 • E-MAIL Permitco 1@aol.com

November 28, 2007

Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, UT 84114-5801  
Attn: Minerals

Re: **Gasco Production Company**  
**Wilkin Ridge Federal #24-31-10-17**  
**662' FSL and 1978' FWL**  
**SE SW Section 31, T10S - R17E**  
**Duchesne County, Utah**

Gentlemen:

Enclosed please find one copy of the Application for Permit to Drill, along with one copy of the Onshore Order No. 1 which was filed with the BLM in Vernal, Utah.

If you should need additional information, please don't hesitate to contact me. Approved copies of the A.P.D. should be sent to Permitco Inc. at the address shown above.

Sincerely,

PERMITCO INC.

Venessa Langmacher  
Consultant for  
Gasco Production Company

Enc.

cc: **Gasco Production Company - Englewood, CO**  
**Shawn Elworthy - Myton, UT**  
**Shon McKinnon - Altamont, UT**

RECEIVED  
DEC 03 2007  
DIV. OF OIL, GAS & MINING

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO.: <b>UTU-076031</b>	6. SURFACE: <b>BLM</b>
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: <b>Wilkin Ridge</b>	
2. NAME OF OPERATOR: <b>Gasco Production Company</b>		9. WELL NAME and NUMBER: <b>Wilkin Ridge Federal #24-31-10-17</b>	
3. ADDRESS OF OPERATOR: <b>8 Inverness Drive East, Suite 100, Englewood, CO 80112</b>		10. FIELD AND POOL, OR WILDCAT: <del>Wildcat</del> <b>Undesignated</b>	
PHONE NUMBER: <b>303-483-0044</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE MERIDIAN: <b>Sec. 31, T10S-R17E</b>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>581171X 44163274 39.895022</b> AT PROPOSED PRODUCING ZONE: <b>SE SW - 110.050554</b>		14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>Approximately 28.1 miles southwest of Myton, UT</b>	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>660'</b>		16. NUMBER OF ACRES IN LEASE: <b>359.2</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40 Acres; SE SW</b>
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): <b>None</b>		19. PROPOSED DEPTH: <b>12,965'</b>	20. BOND DESCRIPTION: <b>Bond #UT-1233</b>
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>6503' GL</b>		22. APPROXIMATE DATE WORK WILL START: <b>ASAP</b>	23. ESTIMATED DURATION: <b>24 Days</b>

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
17-1/2"	13-3/8", H40, 48#	40'	50 sx Premium Type 5, 15.6 ppg, 1.18 yield
12-1/4"	8-5/8", J-55, 32#	3,605'	607 sx Hi-Lift, 11 ppg, 3.91 yield & 185 sx 10-2 RFC, 14.2 ppg, 1.63 yield
7-7/8"	4-1/2", P110, 13.5#	12,965'	523 sx Hi-Lift, 11.5 ppg, 3.05 yield & 1324 sx 50-50 Poz, 14.1 ppg, 1.28 yield

25. **ATTACHMENTS**

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

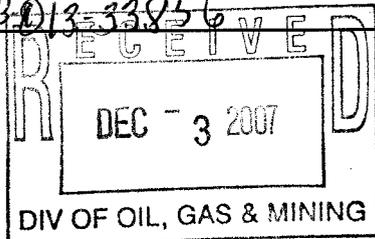
- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input checked="" type="checkbox"/> COMPLETE DRILLING PROGRAM                                |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR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

AGENT: **PermitCo Inc.** AGENT'S PHONE NO.: **303-857-9999**  
 NAME (PLEASE PRINT) Venessa Langmacher TITLE Agent for Gasco Production Company  
 SIGNATURE Venessa Langmacher DATE November 28, 2007

(This space for State use only)

API NUMBER ASSIGNED: 43013-33856

(11/2001)



Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 12-06-07  
By: [Signature]

**CONFIDENTIAL**

Federal Approval of this  
Action is Necessary

R  
16  
E

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

589°47'02"E - 2621.79' (Meas.)

589°56'26"E - 2644.22' (Meas.)

1910 Brass  
Cap, 1.5' High,  
Pile of Stones

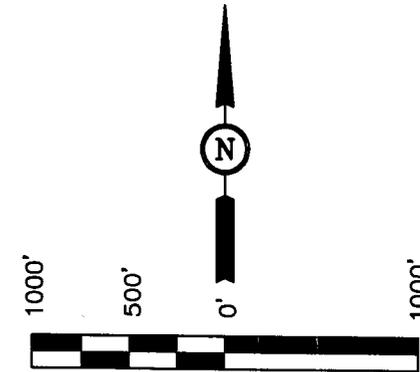
**GASCO PRODUCTION COMPANY**  
Well location, WILKIN RIDGE FEDERAL  
#24-31-10-17, located as shown in the SE 1/4  
SW 1/4 of Section 31, T10S, R17E, S.L.B.&M.,  
Duchesne County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION LOCATED ON THE NW CORNER OF SECTION  
14, T10S, R18E, S.L.B.&M. TAKEN FROM THE MOON BOTTOM,  
QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD.  
(TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES  
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID  
ELEVATION IS MARKED AS BEING 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 AND UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*[Signature]*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

R  
17  
E

500°07'00"W - 2641.72' (Meas.)

500°08'33"W - 2648.60' (Meas.)

N00°03'W - 5280.00' (G.L.O.)

1910 Brass  
Cap, 1.5' High

1910 Brass  
Cap, 1.0' High,  
Pile of Stones

LOT 1

LOT 2

1910 Brass Cap,  
1.0' High, Pile of  
Stones

LOT 3

LOT 4

31  
WILKIN RIDGE FEDERAL  
#24-31-10-17

Elev. Ungraded Ground = 6503'

1978'

662'

Brass Cap, 1.0'  
High

1909 Brass  
Cap, 1.0' High

T10S  
T11S

589°58'08"E - 2637.57' (Meas.)

EAST - 2640.00' (G.L.O.)

**LEGEND:**

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)

LATITUDE = 39°53'42.00" (39.895000)

LONGITUDE = 110°03'04.55" (110.051264)

(NAD 27)

LATITUDE = 39°53'42.13" (39.895036)

LONGITUDE = 110°03'02.01" (110.050558)

**UINTAH ENGINEERING & LAND SURVEYING**

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 07-09-07	DATE DRAWN: 07-19-07
PARTY J.W. Q.B. C.H.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE GASCO PRODUCTION COMPANY	

ONSHORE ORDER NO. 1  
Gasco Production Company  
Wilkin Ridge Federal #24-31-10-17  
662' FSL and 1978' FWL  
SE SW Section 31, T10S-R17E  
Duchesne County, Utah

CONFIDENTIAL - TIGHT HOLE

Lease No. UTU-076031

DRILLING PROGRAM

Page 1

ONSHORE OIL & GAS ORDER NO. 1  
Approval of Operations on Onshore  
Federal and Indian Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

**A. ESTIMATED TOPS OF ALL GEOLOGIC GROUPS, FORMATIONS, MEMBERS, OR ZONES**

<i>Formation</i>	<i>Depth</i>	<i>Subsea</i>
Wasatch	5,055'	+1,450'
Mesaverde	9,195'	-2,690'
Castlegate	11,715'	-5,210'
Blackhawk	12,005'	-5,500'
Aberdeen	12,665'	-6,190'
T.D.	12,965'	-6,460'

**B. ESTIMATED DEPTH AND THICKNESS OF OIL, GAS, WATER & OTHER MINERAL ZONES**

<i>Substance</i>	<i>Formation</i>	<i>Depth</i>	<i>Thickness</i>
Gas	Wasatch	5,400' - 9,195'	3,795'
Gas	Mesaverde	9,195' - 11,715'	2,520'
Gas	Blackhawk	12,005' - 12,865'	860'

All fresh water 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.



**C. SPECIFICATIONS FOR BLOWOUT PREVENTION EQUIPMENT AND DIVERTER SYSTEMS**

Gasco Production Company's minimum specifications for pressure control equipment are as follows:

Ram Type: 11" Hydraulic double with annular, 5000 psi w.p.

Ram type preventers and associated equipment shall be tested to 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 in 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.

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:

1. when initially installed;
2. whenever any seal subject to test pressure is broken
3. following related repairs; and
4. 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 BOPE 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 RP53. 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 casing cement plugs.

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

1. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 11", 5000 psi working pressure blowout preventor.
2. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.
3. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
4. 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.

**D. PROPOSED CASING PROGRAM**

1. 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.
2. Casing design shall assume formation pressure gradients of 0.44 to 0.50 psi per foot for exploratory wells (lacking better data).



3. Casing design shall assume fracture gradients from 0.70 to 1.00 psi per foot for exploratory wells (lacking better data)
4. Casing collars shall have a minimum clearance of 0.422 inches of all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.
5. All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.
6. All casing except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.
7. The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.
8. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.
9. Three centralizers will be run on the bottom three joints of surface casing with a minimum of one centralizer per joint starting with the shoe joint.
10. Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
11. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
12. On all exploratory wells, and on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.



13. The proposed casing program will be as follows:

<i>Purpose</i>	<i>Depth</i>	<i>Hole Size</i>	<i>O.D.</i>	<i>Weight</i>	<i>Grade</i>	<i>Type</i>	<i>New/Used</i>
Conductor	0-40'	17-1/2"	13-3/8"	48#	H-40	---	New
Surface	0-3,605'	12-1/4"	8-5/8"	32#	J-55	ST&C	New
Production	0-12,965'	7-7/8"	4-1/2"	13.5#	P-110	LT&C	New

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

**E. PROPOSED CEMENTING PROGRAM**

<i>Conductor</i>	<i>Type and Amount</i>
TOC @ Surface	50 sx Premium Type 5 mixed @ 15.6 ppg, 1.18 yield
<i>Surface</i>	<i>Type and Amount</i>
TOC @ Surface	Lead: 607 sx Hi-Lift mixed @ 11 ppg, 3.91 yield Tail: 185 sx 10-2 RFC mixed @ 14.2 ppg, 1.63 yield
<i>Production</i>	<i>Type and Amount</i>
TOC @ 2,500'	Lead: 523 sx Hi-Lift mixed @ 11.5 ppg, 3.05 yield Tail: 1324 sx 50:50 Poz @ 14.1 ppg, 1.28 yield

1. 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.
2. 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.
3. The following reports shall be filed with the District Manager within 30 days after the work is completed.



- a. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:
  1. 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.
  2. Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.
4. Auxiliary equipment to be used is as follows:
  - a. Kelly cock
  - b. No bit float is deemed necessary.
  - c. A sub with a full opening valve.

**F. PROPOSED CIRCULATING MEDIUM OR MEDIUMS**

1. The proposed circulating mediums to be employed in drilling are as follows:

<i>Interval</i>	<i>Mud Type</i>	<i>Mud Wt.</i>	<i>Visc.</i>	<i>F/L</i>	<i>pH</i>
0 - 200'	Fresh Water	8.33	1	---	7
200' - 3,605'	Fresh Water	8.33	1	---	7-8
3,605' - 12,965'	Fresh Water & DAP	9.0-11.5	30-40	12-20	8

There will be sufficient mud on location to control a blowout should one occur.  
A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, static filtration loss, and Ph.



2. Mud monitoring equipment to be used is as follows:
  - a. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.
3. No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.
4. 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. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.
5. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

**G. PROPOSED TESTING, LOGGING, AND CORING**

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

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. 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 authorized officer. Closed chamber DSTs 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 some 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.



2. The logging program will consist of a Induction or laterolog as appropriate, Gamma Ray, Density and Neutron from Base of Surface Casing to TD.
3. No cores are anticipated.
4. 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 not later than 30 days after 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-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cutting, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).
5. The anticipated completion program is as follows: Perform multistage fracs and complete all productive Blackhawk, Mesaverde and Wasatch sands present in wellbore. Produce all zones commingled.
6. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

**H. EXPECTED BOTTOM-HOLE PRESSURE**

1. The expected bottom hole pressure is 7260 psi. The maximum bottom hole temperature anticipated is 220 degrees F.
2. No hydrogen sulfide gas is anticipated. Abnormal pressures will be controlled with mud weight and 5000# BOP and rotating head.

**I. OTHER INFORMATION & NOTIFICATION REQUIREMENTS**

1. Drilling is planned to commence in upon approval of this application.
2. It is anticipated that the drilling of this well will take approximately 24 days.
3. The BLM in Vernal, Utah shall be notified of the anticipated date of location construction commencement and of anticipated spud date.



4. 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 approval of the AO will be obtained and notification given before resumption of operations.
5. The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.
6. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of 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 the Vernal BLM District Office, 170 South 500 East, Vernal, UT 84078.
7. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.
8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communications, not later than 5 days following the date on which the well is placed on production.
10. 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 up to 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.
11. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, 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 or authorized test period.

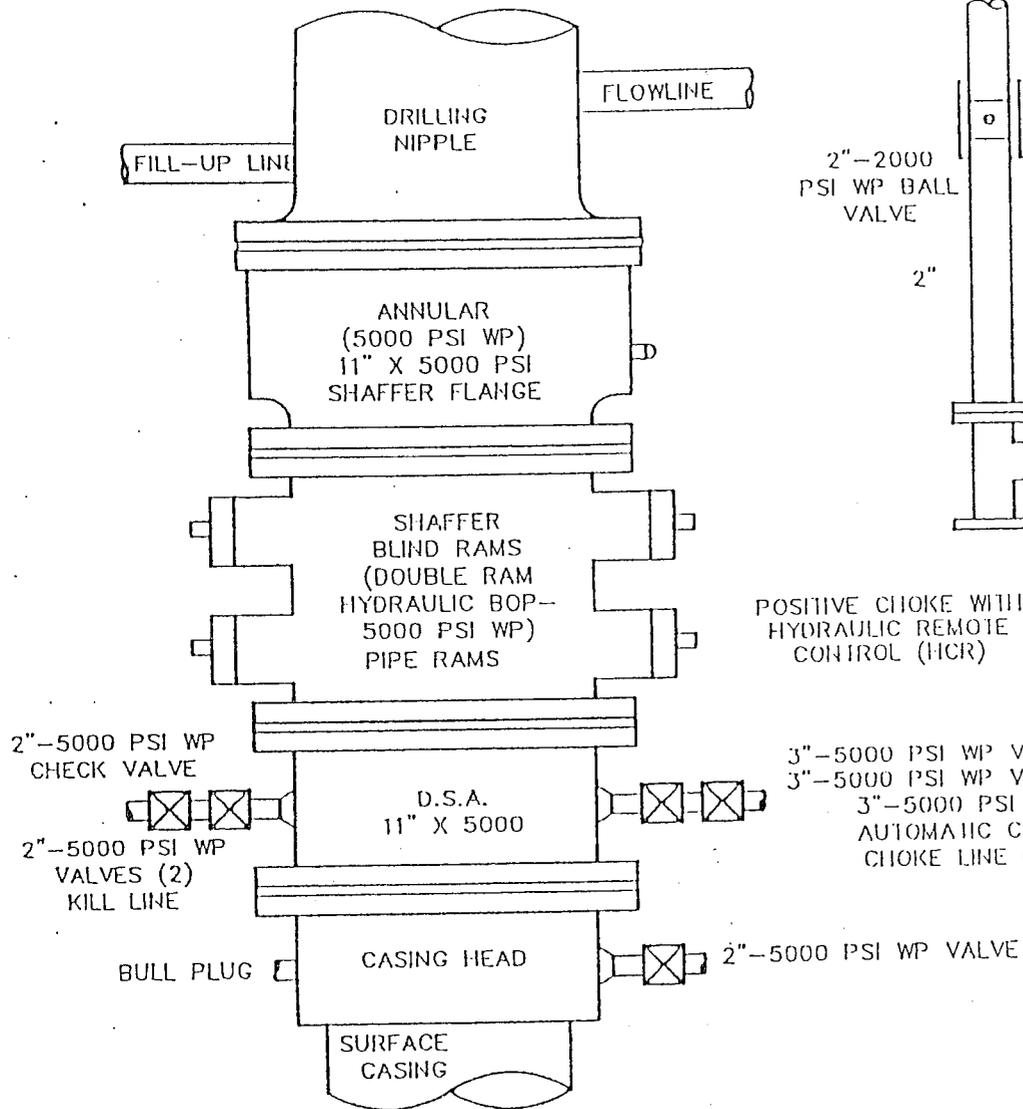


12. A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9.d.), shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b.4.).
13. A first production conference will be scheduled within 15 days after receipt of the first production notice.
14. No well abandonment operations will be commenced 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 SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.
15. Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

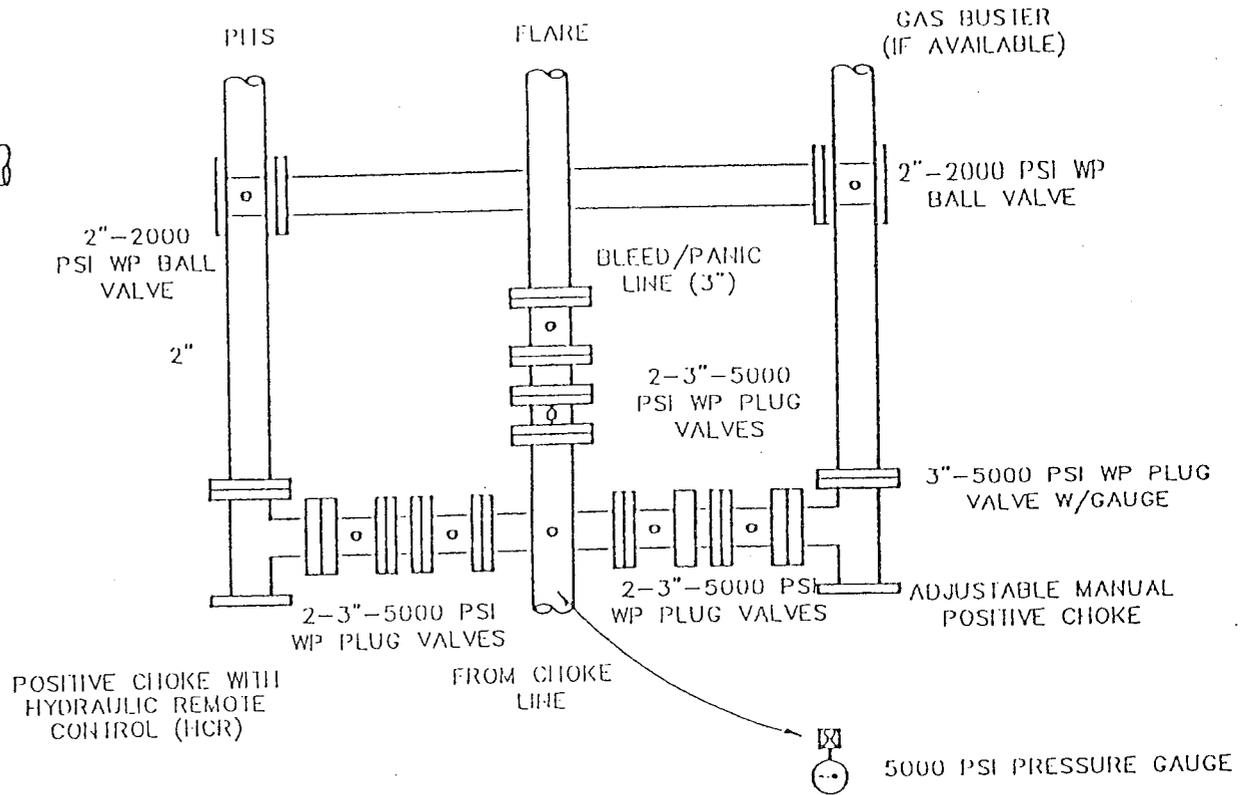
Bureau of Land Management 170 South 500 East Vernal, Utah 84078		
Phone: 435/781-4400		Fax: 435/781-4410
After Hours:		
Matt Baker	Petroleum Engineer	435/828-4470
Michael Lee	Petroleum Engineer	435/828-7875



BOP SCHEMATIC  
5000 PSI WORKING PRESSURE



PLAN VIEW CHOKE MANIFOLD



THE HYDRAULIC CLOSING UNIT WILL BE LOCATED MORE THAN 30' FROM THE WELLHEAD. CHOKE AND BLEED/PANIC LINES WILL GO TO THE PIT AND FLARE. ALL CONNECTIONS IN CHOKE LINES AND MANIFOLD WILL BE FLANGED OR WELDED. ALL FLANGES SHOULD BE RING JOINT GASKET TYPE. ALL TURNS IN LINES SHALL BE CONSTRUCTED USING TARGETING 90° TEES OR ELLS. ALL LINES SHALL BE ANCHORED.

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

Location Construction -	forty-eight (48) hours prior to construction of location and access roads.
Location Completion -	prior to moving on the drilling rig.
Spud Notice -	at least twenty-four (24) hours prior to spudding the well.
Casing String and - Cementing	twenty-four (24) hours prior to running casing and cementing all casing strings.
BOP and Related - Equipment Tests	twenty-four (24) hours prior to initiating pressure tests.
First Production - Notice	within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

The onsite inspection for the subject well site was conducted on Thursday, August 30, 2007 at approximately 9:32 a.m. Weather conditions were clear and warm. In attendance at the onsite inspection were the following individuals:

Darren Williams	Natural Resource Specialist	Bureau of Land Management
Brandon McDonald	Wildlife Biologist	Bureau of Land Management
Randy Smith	Permitting Agent	Permitco Inc.
Shon McKinnon	Consultant	Gasco Production Company
Jesse Walton	Surveyor	Uintah Engineering and Land Surveying
Brian O'Hearn	Ecologist	SWCA
Linda Sperry	Environmental Specialist	SWCA

**A. EXISTING ROADS**

1. The proposed well site is located approximately 28.1 miles south of Myton, Utah.



2. Directions to the location from Myton, Utah are as follows:

Proceed in a southeasterly direction from Myton, Utah for approximately 12.7 miles to the Castle Peak Mine. Stay right and continue southerly for 6.6 miles. Turn right and proceed southwesterly 1.2 miles until reaching the fork in the road. Turn right and proceed south 2.8 miles. Continue southwesterly on the existing 2-track to be upgraded 3 miles. Turn left and proceed southeasterly 1.4 miles. Turn right onto the proposed access and proceed south 0.4 miles.

3. For location of access roads within a 2-Mile radius, see Maps A & B.
4. Improvement to existing main roads will not be required.
5. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
6. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

**B. NEW OR RECONSTRUCTED ACCESS ROADS**

1. There will be 0.4 miles of new access to be constructed and 3 miles of existing 2-track road to be upgraded.
2. The maximum grade is approximately 4%.
3. No turnouts are planned.
4. One 24" culvert will be installed along the proposed access road. Two low water crossings will also be installed along the proposed access road as shown on Map B.
5. The access road was centerline surveyed at the time of staking.
6. The use of surfacing material is not anticipated, however it may be necessary depending on weather conditions.



7. No cattle guards will be necessary.
8. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
9. Access roads and surface disturbing activities will conform to Gold Book standards.
10. The road will be constructed/upgraded to meet the standards of the anticipated traffic flow and all weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowing and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.
11. 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. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.
12. Road right of way is not needed since all access roads are within the unit boundary.

**C. LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS OF THE PROPOSED LOCATION.**  
(See Map "C")

1. Water wells - none
2. Injection wells - none
3. Producing wells - three
4. Drilling wells - none
5. Shut-in wells - none
6. Temporarily abandoned wells - none



7. Disposal wells -none
8. Plugged and Abandoned wells - one

**D. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES**

1. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted Carlsbad Canyon. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.
2. If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.
3. If production is established, a production facility diagram will be submitted via Sundry Notice.
4. All loading lines will be placed inside the berm surrounding the tank battery.
5. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flow line will be buried or anchored down from the wellhead to the separator. Meter runs will be housed and/or fenced.
6. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter 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 meter calibration reports will be submitted to the Vernal Field Office. All meter measurement facilities will conform with Onshore Oil and Gas Order No. 4 for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.
7. If at any time the facilities located on public land and authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit



boundary change), BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental or other financial obligation as determined by the authorized officer.

8. Any necessary pits will be properly fenced to prevent any wildlife entry.
9. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
10. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
11. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.
12. The road will be maintained in a safe useable condition.
13. Produced water will be stored in a 300 bbl heated, insulated tank, then hauled to a commercial disposal site such as Disposal Inc., or Brennan Bottom.
14. Pipelines will follow the route shown on Map D. See Pipeline detail attached. Pipeline right of way is not needed since all pipelines are within the unit boundary.

**E. LOCATION AND TYPE OF WATER SUPPLY**

1. The proposed water source will be the Nebecker Water Station in Myton. The Water Use Claim # is 43-1721. In addition, recycled water from other drilling or producing wells will be utilized.
2. Water will be hauled by Nebecker Water Service to the location over the access roads shown on Maps A and B.
3. No water well will be drilled on this lease.

**F. CONSTRUCTION MATERIALS**

1. Surface and subsoil materials in the immediate area will be utilized.
2. Any gravel used will be obtained from a commercial source.



3. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2.3. Construction material will not be located on lease.
4. No construction materials will be removed from Federal land.

**G. METHODS FOR HANDLING WASTE**

1. The reserve pit will be constructed so as not to leak, break, or allow discharge.
2. At the request of the BLM, the reserve pit will be lined with a 12 mil liner. If fractured rock is encountered, the pit will be first lined with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O.
3. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight.
4. After first production, produced waste water will be confined to a unlined pit or storage tank for a period not to exceed ninety (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. Failure to file an application within the time allowed will be considered an incident of noncompliance.
5. Drill cuttings are to be contained and buried in the reserve pit.
6. 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.
7. A chemical porta-toilet will be furnished with the drilling rig.
8. The produced fluids will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas salt water or other produced fluids will be cleaned up and removed.



**H. ANCILLARY FACILITIES**

There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

**I. WELL SITE LAYOUT**

1. The operator or his/her contractor shall contact the BLM Office at 435/781-4400 forty-eight (48) hours prior to construction activities.
2. The reserve pit will be located on the northwest side of the location.
3. The flare pit will be located on the northeast side of the reserve pit, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.
4. The stockpiled topsoil (first six inches) will be stored on the north side of the location, between Corners 7 and 9. Topsoil along the access route will be wind rowed on the uphill side.
5. Access to the well pad will be from the northwest as shown on the Pit & Pad Layout.
6. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
7. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Location Layout.
8. All pits will be fenced according to the following minimum standards:
  - a. 39 inch net wire shall be used with two strands of barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
  - b. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of the fence shall be at least 42-inches.
  - c. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.



- d. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
  - e. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.
9. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.

**J. PLANS FOR SURFACE RECLAMATION**

Producing Location

1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
3. If a plastic nylon reinforced liner is used it shall be torn and perforated before backfilling of the reserve pit.
4. The reserve pit and that portion of the location not needed for production facilities or operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed and all cans, barrels, pipe, etc., will be removed.
5. Reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer.

Seeding will be performed immediately after the location has been reclaimed and the pit has been backfilled, regardless of the time of year. Seed will be broadcast and walked in with a dozer.



6. The topsoil stockpile will be seeded as soon as the location has been constructed with the same recommended seed mix. The seed will be walked in with a cat.

Dry Hole

1. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and BLM will attach the appropriate surface rehabilitation conditions of approval.

Interim Surface Reclamation will be as follows:

1. Immediately after final well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production operations.
2. Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in the reserve pit will be removed. Other waste and spoil materials will be disposed of immediately, weather permitting, upon final well completion.
3. If a synthetic, nylon re-enforced, liner is used, the excess liner will be cut off and removed and the remaining liner will be torn and perforated while backfilling the reserve pit. Alternatively, the pit will be pumped dry, the liner folded into the pit, and the pit backfilled. The liner will be buried to a minimum of four (4) feet deep.
4. The reserve pit will be reclaimed within 180 days from the date of final well completion, weather permitting.
5. The reserve pit and that portion of the location not needed for production and storage facilities, and everyday production operations, will be reshaped to the approximate original contours to the extent possible. This will be completed by backfilling and crowning the pit to prevent water from standing. Topsoil will be re-spread up to the rig anchor points, excluding the area needed for production and storage facilities and everyday production operations. Re-seeding, using appropriate reclamation methods, will occur immediately following the re-spreading of topsoil, weather permitting. The Authorized Officer will provide a seed mixture to re-vegetate the reserve pit and other unused disturbed areas at the time of the onsite.



**K. SURFACE OWNERSHIP**

Access Roads - The majority of the access roads are maintained by the County Road Department or the Bureau of Land Management.

Well pad - The well pad is located on lands managed by the BLM.

**L. OTHER INFORMATION**

1. A Class III archeological survey has been conducted by Grand River Institute (GRI Project No. 2762, dated July 13, 2007). No significant cultural resources were found and clearance for the project has been recommended. A copy of this report is attached.

2. A Paleontology Evaluation was conducted by Alden Hamblin on July 27, 2007. A copy of this report is attached.

3. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and

-a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.



4. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
5. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure.
6. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.
7. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.
8. There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended or abandoned will be identified in accordance with 43 CFR 3162.
9. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
10. This permit will be valid for a period of two years from the date of approval. An extension period of two years may be granted, if requested, prior to the expiration of the original approval period. After permit termination, a new application will be filed for approval for any future operations.
11. The operator or his contractor shall contact the BLM Offices at 435/781-4400 48 hours prior to construction activities.
12. The BLM Office shall be notified upon site completion prior to moving on the drilling rig.



ONSHORE ORDER NO. 1  
Gasco Production Company  
**Wilkin Ridge Federal #24-31-10-17**  
662' FSL and 1978' FWL  
SE SW Section 31, T10S - R17E  
Duchesne County, Utah

CONFIDENTIAL - TIGHT HOLE

Lease No. UTU-076031

**SURFACE USE PLAN**

Page 12

**AGENT AND OPERATOR'S CONTACT INFORMATION**

Permit Matters

**PERMITCO INC.**  
14421 County Road 10  
Ft. Lupton, CO 80621  
303/857-9999 (O)  
303/857-0577 (F)  
Lisa Smith

Drilling & Completion Matters

**Gasco Production Company**  
8 Inverness Drive East, Suite 100  
Englewood, CO 80112  
John Longwell  
303/483-0044 (O)  
303/ 483-0011(F)

Shawn Elworthy  
Roosevelt, UT  
(Cell) 435-823-4272



PIPELINE INFORMATION  
*Wilkin Ridge Federal #24-31-10-17*

1. The type of pipeline is a single well flow line.
2. The outside diameter (O.D.) of all will be 8 inches maximum.
3. The anticipated production through the line is approximately 2000 MCF per day.
4. The anticipated maximum test pressure is 1000 psi.
5. The anticipated operating pressure is 100-200 psi.
6. The type of pipe is steel.
7. The method of coupling is welded.
8. There are no other pipelines to be associated in same right of way.
9. There will be other objects to be associated in the same right of way. (Risers, Pig Launchers Pig Traps, meters and other appurtenances as required.)
10. The total length of pipeline is approximately 6,550 feet - see Map D.
11. The line will be laid on surface because of the rocky surface as shown on Map D. Where possible, the pipeline will follow existing or proposed roads.
12. The construction width for total surface disturbing activities is 30 feet.
13. The estimated total acreage involving all surface disturbing activities is 4.51 acres.
14. Any surface disturbance created as a result of the pipeline construction will be reclaimed utilizing the reclamation procedures and seed mixture specified by the Bureau of Land Management.
15. The line will be tested with gas pressure to 1000 psi.



Gasco Production Company  
**Wilkin Ridge Federal #24-31-10-17**  
662' FSL and 1978' FWL  
SE SW Section 31, T10S - R17E  
Duchesne County, UT

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge, of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 10<sup>th</sup> day of September, 2007.

Venessa Langmacher  
Venessa Langmacher

Agent for Gasco Production Company  
Title

14421 County Road 10, Fort Lupton, CO 80621  
Address

303/857-9999  
Telephone

VLLPermitco@aol.com  
E-mail



**GASCO PRODUCTION COMPANY**  
**WILKIN RIDGE FEDERAL #24-31-10-17**  
 LOCATED IN DUCHESNE COUNTY, UTAH  
 SECTION 31, T10S, R17E, S.L.B.&M.

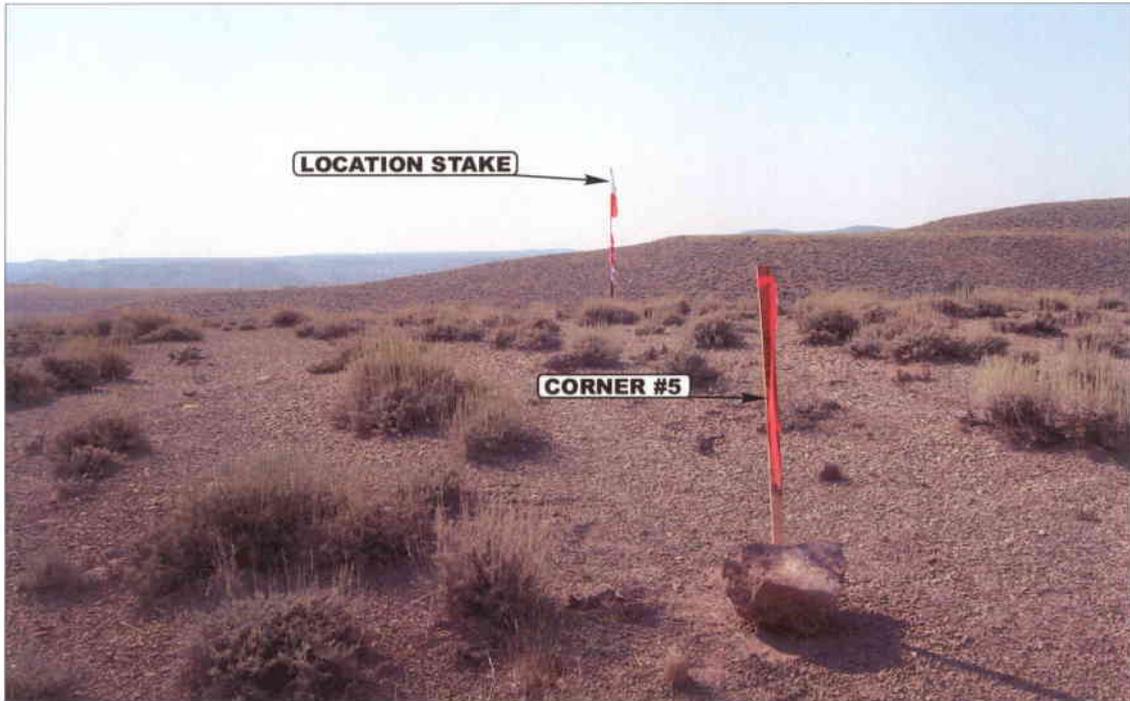


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY

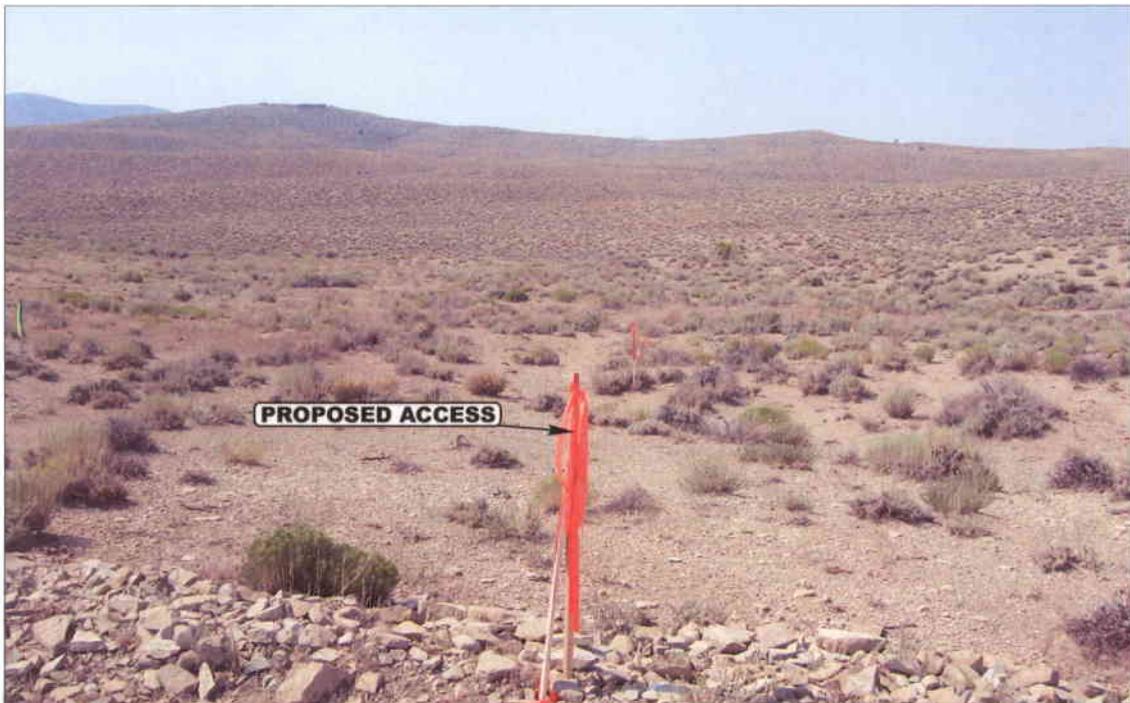


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

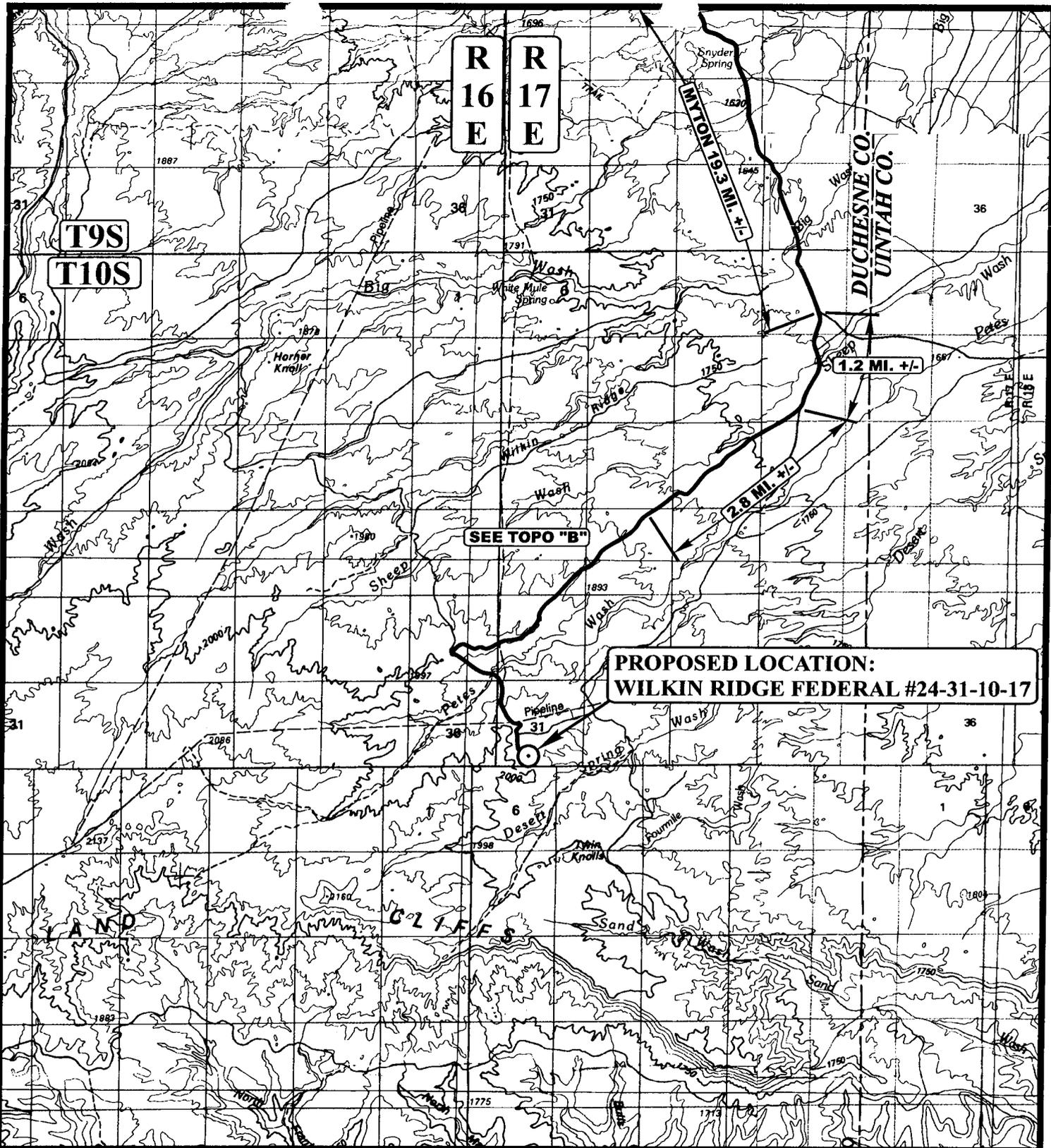
CAMERA ANGLE: SOUTHERLY



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

<b>LOCATION PHOTOS</b>			<b>07</b>	<b>17</b>	<b>07</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: J.W.	DRAWN BY: C.P.	REVISED: 00-00-00				

- Since 1964 -



**LEGEND:**

⊙ PROPOSED LOCATION



**GASCO PRODUCTION COMPANY**

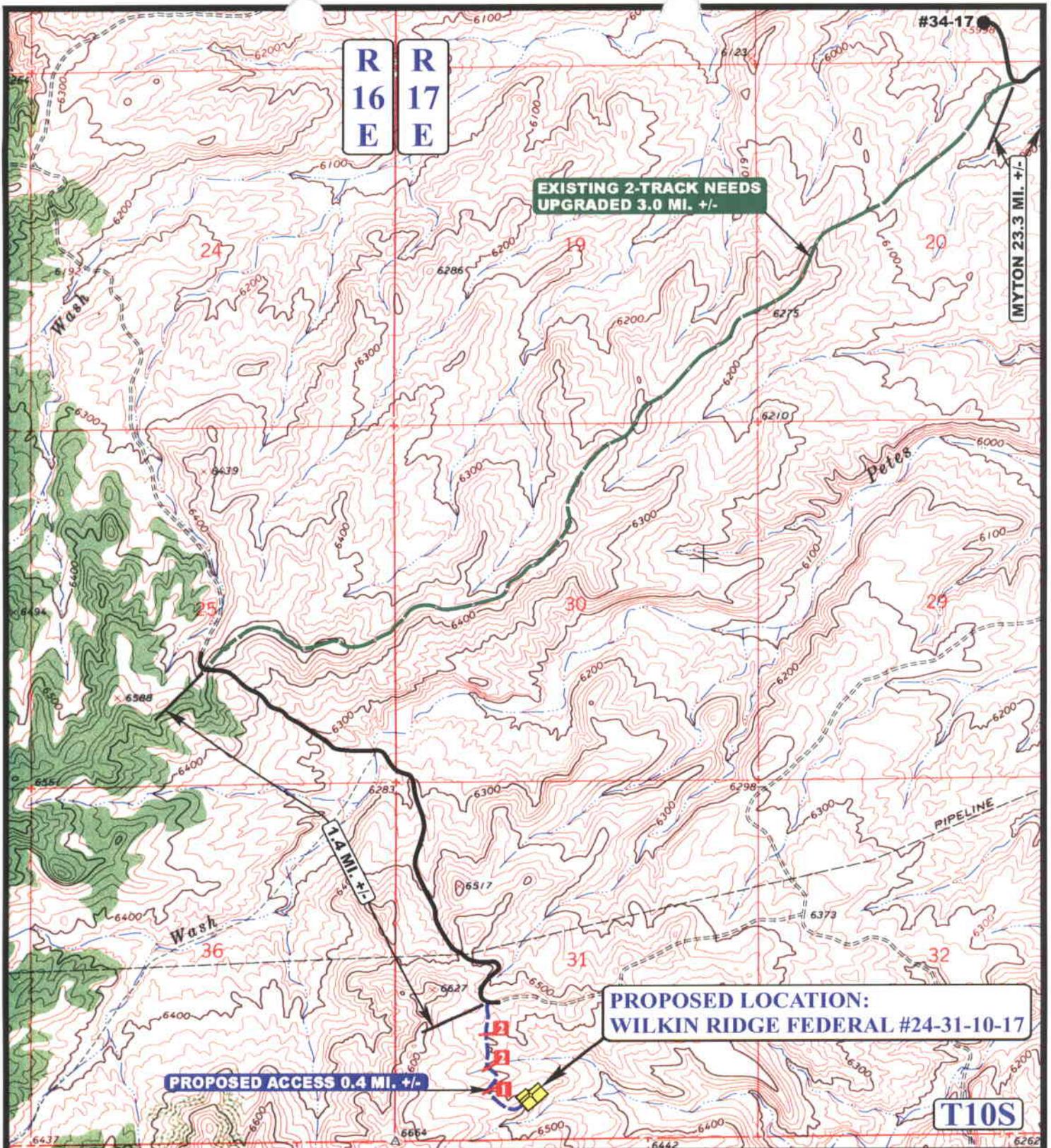
**WILKIN RIDGE FEDERAL #24-31-10-17**  
**SECTION 31, T10S, R17E, S.L.B.&M.**  
**662' FSL 1978' FWL**



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

**TOPOGRAPHIC** 07 17 07  
**MAP** MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00





**R 16 E**  
**R 17 E**

**EXISTING 2-TRACK NEEDS UPGRADED 3.0 MI. +/-**

**MYTON 23.3 MI. +/-**

**PROPOSED LOCATION:  
WILKIN RIDGE FEDERAL #24-31-10-17**

**PROPOSED ACCESS 0.4 MI. +/-**

**T10S**

**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING 2-TRACK NEEDS UPGRADED
- 24" CMP REQUIRED
- LOW WATER CROSSING REQUIRED

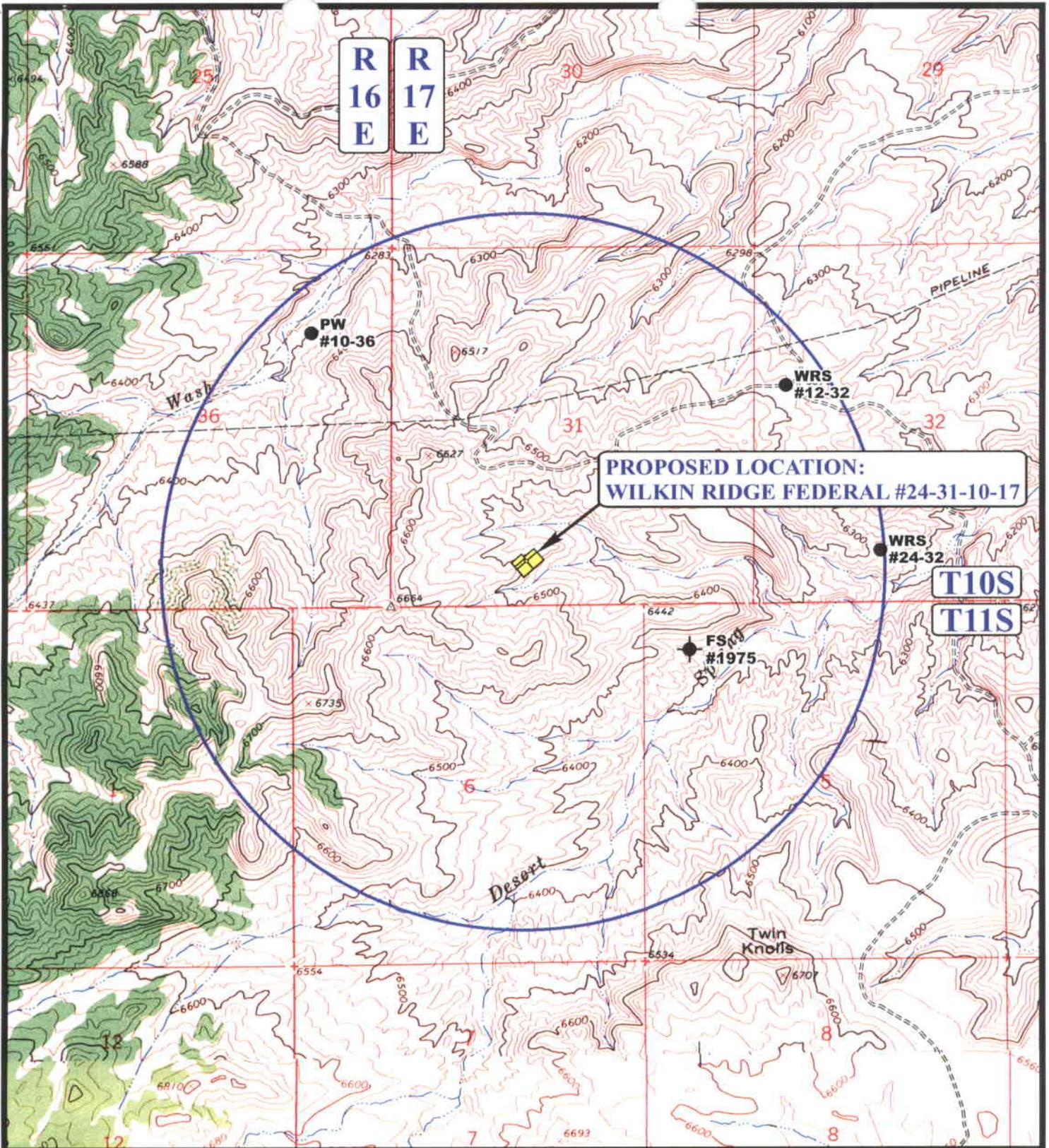
**U&L S** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**GASCO PRODUCTION COMPANY**  
**WILKIN RIDGE FEDERAL #24-31-10-17**  
**SECTION 31, T10S, R17E, S.L.B.&M.**  
**662' FSL 1978' FWL**

**TOPOGRAPHIC MAP** 07 17 07  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 09-05-07

**B**  
**TOPO**



**PROPOSED LOCATION:  
WILKIN RIDGE FEDERAL #24-31-10-17**

**LEGEND:**

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



**GASCO PRODUCTION COMPANY**

**WILKIN RIDGE FEDERAL #24-31-10-17  
SECTION 31, T10S, R17E, S.L.B.&M.  
662' FSL 1978' FWL**



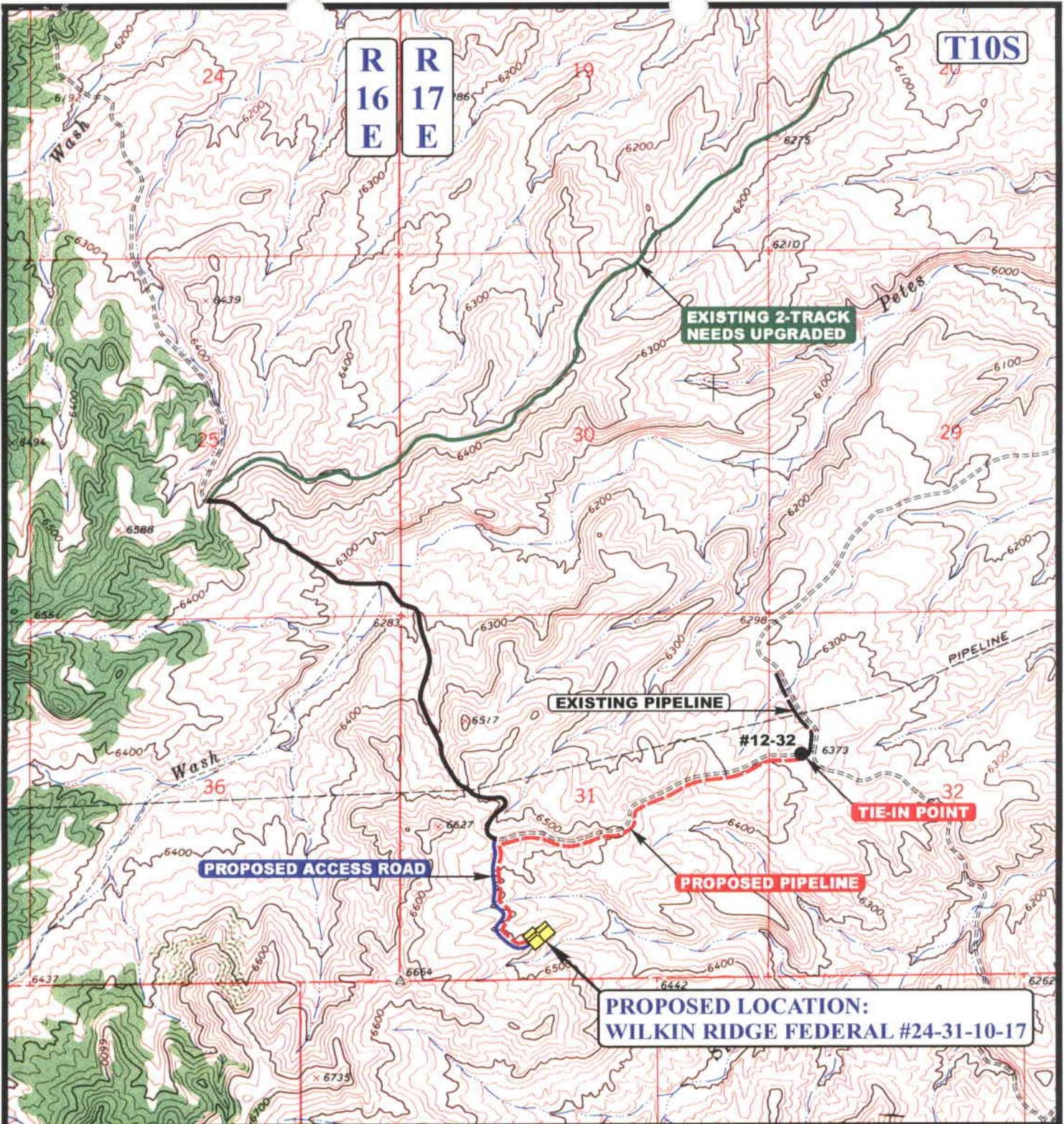
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP**

**07 17 07**  
MONTH DAY YEAR

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





**APPROXIMATE TOTAL PIPELINE DISTANCE = 6,550' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- - - - - PROPOSED PIPELINE
- EXISTING 2-TRACK NEEDS UPGRADED



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



**GASCO PRODUCTION COMPANY**

**WILKIN RIDGE FEDERAL #24-31-10-17**  
**SECTION 31, T10S, R17E, S.L.B.&M.**  
**662' FSL 1978' FWL**

**TOPOGRAPHIC MAP** 07 17 07  
 MONTH DAY YEAR

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



# GASCO PRODUCTION COMPANY

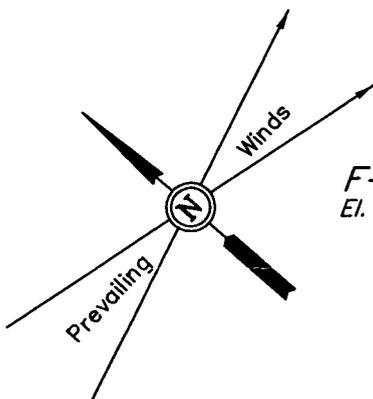
## LOCATION LAYOUT FOR

WILKIN RIDGE FEDERAL #24-31-10-17  
SECTION 31, T10S, R17E, S.L.B.&M.

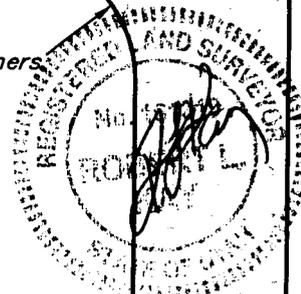
662' FSL 1978' FWL

Topsoil Stockpile

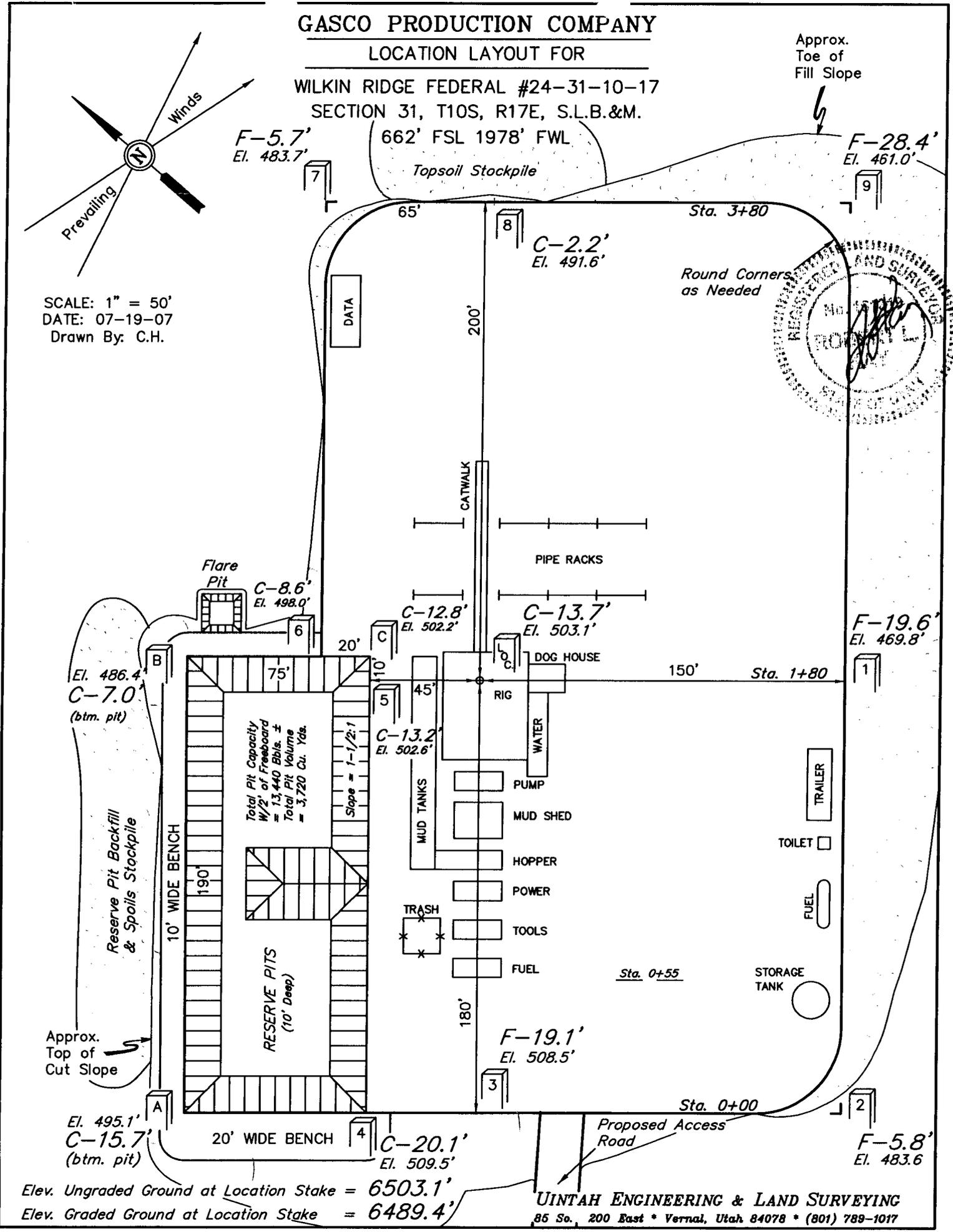
Approx.  
Toe of  
Fill Slope



SCALE: 1" = 50'  
DATE: 07-19-07  
Drawn By: C.H.



Round Corners  
as Needed



Elev. Ungraded Ground at Location Stake = 6503.1'  
Elev. Graded Ground at Location Stake = 6489.4'

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017

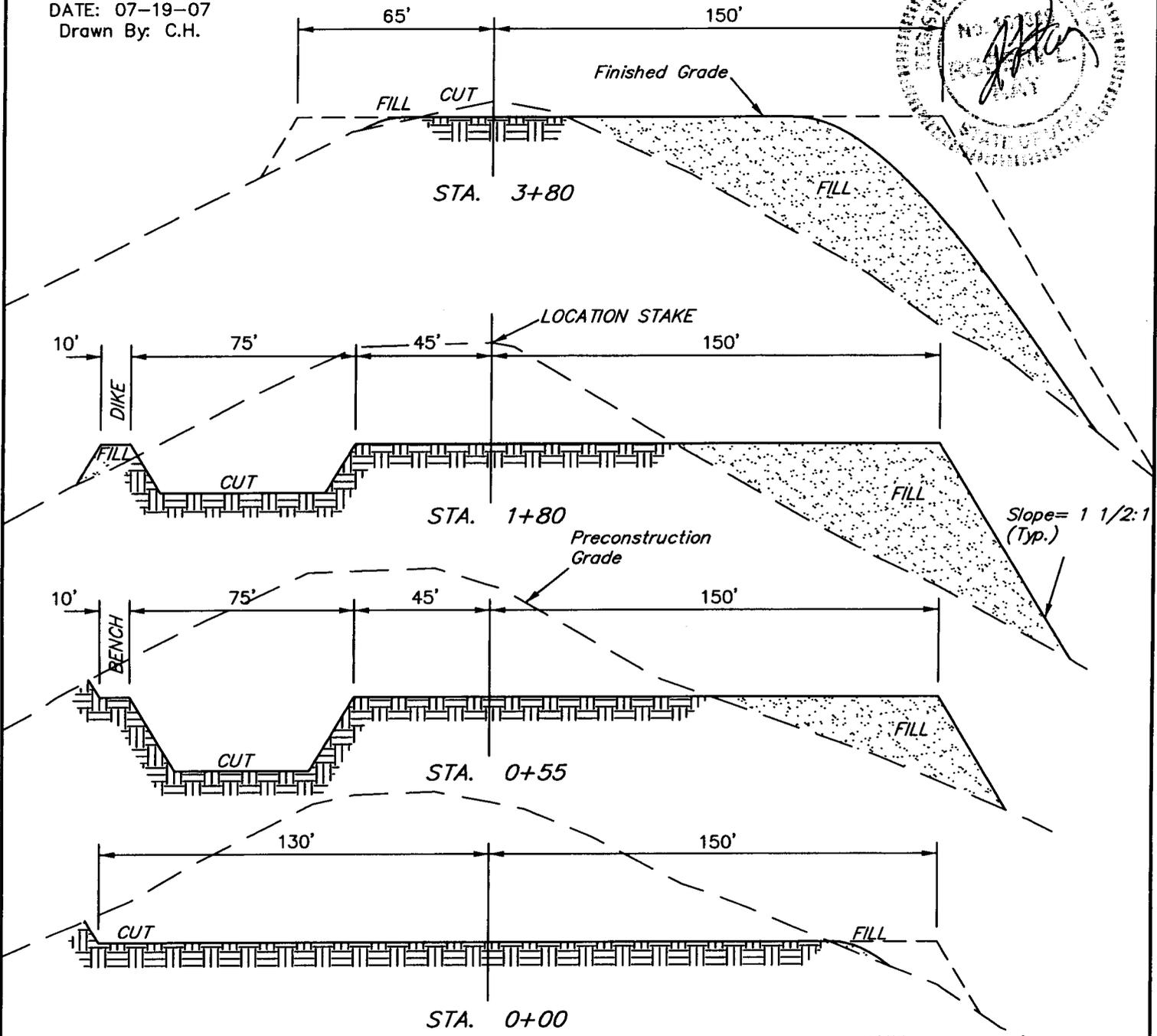
# GASCO PRODUCTION COMPANY

## TYPICAL CROSS SECTIONS FOR

WILKIN RIDGE FEDERAL #24-31-10-17  
SECTION 31, T10S, R17E, S.L.B.&M.  
662' FSL 1978' FWL

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

DATE: 07-19-07  
Drawn By: C.H.



\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT		
(6") Topsoil Stripping	=	2,430 Cu. Yds.
Remaining Location	=	24,750 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>27,180 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>22,890 CU.YDS.</b>

EXCESS MATERIAL	=	4,290 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	4,290 Cu. Yds.
<b>EXCESS UNBALANCE</b>	<b>=</b>	<b>0 Cu. Yds.</b>
(After Interim Rehabilitation)		

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017

**FEDERAL STIPULATIONS**

Any Timing Limitation Stipulations will be attached as a Condition of Approval by the BLM.



**Class III Cultural Resource Inventory Report  
for  
Eleven Proposed Well Locations and Related Linear Routes (3.9 miles)  
in Duchesne and Uintah Counties, Utah  
for  
Gasco Production Company**

GRI Project No. 2762  
13 July 2007

Prepared by

Grand River Institute  
P.O. Box 3543  
Grand Junction, Colorado 81502  
BLM Antiquities Permit No.07UT54939  
UDSH Project Authorization No. U07-GB-0654b

---

Carl E. Conner, Principal Investigator

Submitted to

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

## Abstract

Grand River Institute conducted a Class III cultural resources inventory for Gasco Production Company of eleven proposed well locations (Fed. #12-17-9-19, Fed. #21-17-9-19, Wilkin Ridge Fed. #31-19-10-17, Wilkin Ridge Fed. #24-30-10-17, Wilkin Ridge Fed. #31-30-10-17, Wilkin Ridge Fed. #22-31-10-17, Wilkin Ridge Fed. #24-31-10-17, Uteland Fed. #32-3-10-18, Antelope Fed. #14-15-10-18, Fed. #32-21-10-18, and Fed. #22-22-10-18) and 3.9 miles of linear routes (roads and/or pipelines) in Duchesne and Uintah Counties, Utah, under BLM Antiquities Permit No. 07UT-54939 and Utah Division of State History (UDSH) Project Authorization No. U07-GB-0654b. This work was done to meet requirements of Federal laws that protect cultural resources.

Files searches conducted through the BLM Vernal Field Office (BLM) and through Utah Division of State History indicated no sites were previously recorded in the project areas. Field work was performed on the 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> of July 2007. A total of about 200 acres (BLM ) was inspected.

As a result two isolated finds were encountered (an historic trash scatter and two prehistoric tested cobbles/cores). Both were field evaluated as non-significant and no further work is advised. Accordingly, no significant historical properties were identified within the areas of direct impact and archaeological clearance is recommended for the proposed wells and linear routes.

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## Introduction

At the request of Gasco, Inc. and the Bureau of Land Management Vernal Field Office (BLM), Grand River Institute (GRI) conducted a Class III cultural resources inventory for Gasco Production Company of eleven proposed well locations (Fed. #12-17-9-19, Fed. #21-17-9-19, Wilkin Ridge Fed. #31-19-10-17, Wilkin Ridge Fed. #24-30-10-17, Wilkin Ridge Fed. #31-30-10-17, Wilkin Ridge Fed. #22-31-10-17, Wilkin Ridge Fed. #24-31-10-17, Uteland Fed. #32-3-10-18, Antelope Fed. #14-15-10-18, Fed. #32-21-10-18, and Fed. #22-22-10-18) and 3.9 miles of linear routes (roads and/or pipelines) in Duchesne and Uintah Counties, Utah, under BLM Antiquities Permit No. 07UT-54939 and Utah Division of State History (UDSH) Project Authorization No. U07-GB-0654b. A files search was conducted at BLM and through UDSH. Field work was performed on the 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> of July 2007. A total of about 200 acres (BLM ) was inspected. The file searches, survey and report were completed by Carl E. Conner (Principal Investigator) and Barbara J. Davenport of GRI.

The survey was done to meet requirements of the Federal Land Policy and Management Act of 1976, the National Historic Preservation Act as amended in 1992, and the National Environmental Policy Act (NEPA) of 1969. These laws are concerned with the identification, evaluation, and protection of fragile, non-renewable evidences of human activity, occupation and endeavor reflected in districts, sites, structures, artifacts, objects, ruins, works of art, architecture, and natural features that were of importance in human events. Such resources tend to be localized and highly sensitive to disturbance.

## Location of Project Area

The study area's discrete units lie southwest of Vernal, Utah, in Duchesne and Uintah Counties. The 10-acre blocks surveyed for the proposed new well locations, and the 200-foot-wide corridors for the proposed new access roads and/or pipeline routes are listed in Table 1 and shown in Figures 1 through 4. Notably, the linear distances of the inventoried access and pipeline routes are calculated outside the 10-acre block inventory areas.

---

**Table 1. List of well locations and linear routes.**

<b>Well Designation</b>	<b>Location</b>
Fed. #12-17-9-19	T. 9 S., R. 19 E., Section 17 (Existing access)
Fed. #21-17-9-19	T. 9 S., R. 19 E., Section 17 (640' access)
Wilkin Ridge Fed. #31-19-10-17	T. 10 S., R. 17 E., Section 19 (2640' access)
Wilkin Ridge Fed. #24-30-10-17	T. 10 S., R. 17 E., Section 30 (5970' access)

<b>Well Designation</b>	<b>Location</b>
Wilkin Ridge Fed. #31-30-10-17	T. 10 S., R. 17 E., Section 30 (1940' access)
Wilkin Ridge Fed. #22-31-10-17	T. 10 S., R. 17 E., Section 31 (380' access)
Wilkin Ridge Fed. #24-31-10-17	T. 10 S., R. 17 E., Section 31 (5770' access)
Uteland Fed. #32-3-10-18 (moved location)	T. 10 S., R. 18 E., Section 3 (Existing access)
Antelope Fed. #14-15-10-18	T. 10 S., R. 18 E., Section 15 (Existing access)
Fed. #32-21-10-18	T. 10 S., R. 18 E., Section 21 (530' access)
Fed. #22-22-10-18	T. 10 S., R. 18 E., Section 22 (2990' access)

---

## **Environment**

The project areas are within the major geologic subdivision of the Colorado Plateau known as the Uinta Basin Section. In Utah, this section extends from the Uinta Mountains on the north to the Book Cliffs on the south. It is a broad downwarp into which Quaternary- and Tertiary-age deposits were made from the surrounding mountains which include Holocene and Pleistocene pediment deposits, and Eocene-age fluvial and lacustrine sedimentary rocks (Rigby 1976:xi). Physiographically, the basin includes the Uinta basin in the north portion and the Book Cliffs/Roan Plateau in the south portion. The lower Uinta Formation is the bedrock of the study area. Holocene and Pleistocene-age alluvium and colluvium occur as a veneer over the Uinta. It consists of channel and flood-plain stream deposits. Soils encountered were rocky, shaley, silty, and sandy loams, which are in general formed in residuum from the underlying formation. However, dunes are common in this region as well.

Elevations in the project area range from 4740-to-6520 feet. The terrain is characterized as bench land that is cut by dendritic washes. Vegetation is a shadscale desert community. Regional faunal inhabitants include deer, antelope, elk, black bear, coyote, mountain lion, cottontails, jack rabbits, and various raptors.

A cool, mid-latitude steppe climate prevails. Annual precipitation of this elevation range is between 7 and 10 inches. Temperatures range from 100°F in the summer to -40°F in January. Paleoenvironmental data are scant, but it is generally agreed that gross climatic conditions have remained fairly constant over the last 12,000 years. However, changes in effective moisture, and cooling-warming trends probably affected the prehistoric occupation of the region.

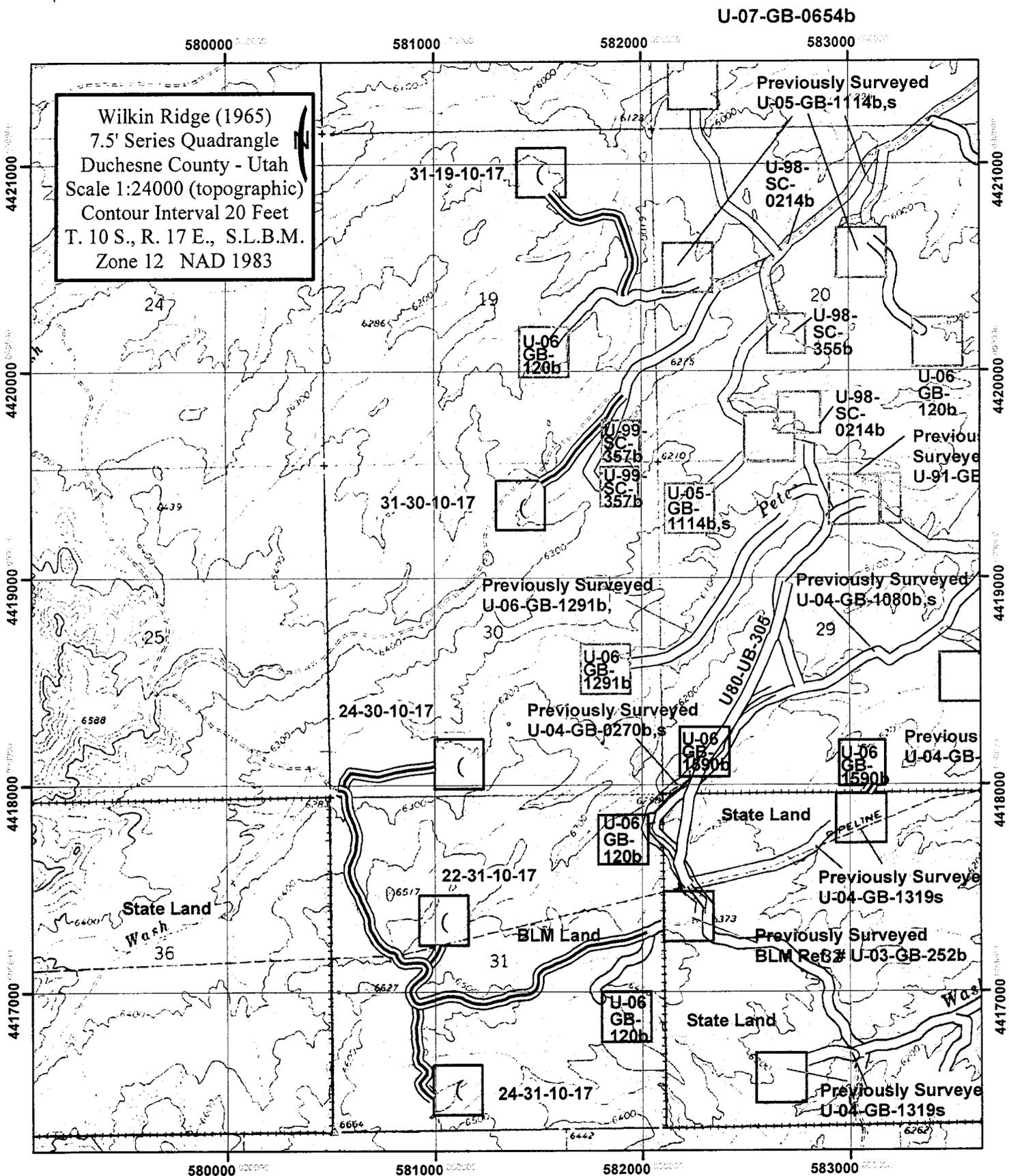


Figure 1. Project location map (1 of 4) for the Class III cultural resources inventory of 11 proposed well locations and related linear routes in Duchesne and Uintah Counties, Utah, for Gasco, Inc. Areas inventoried are highlighted. [Grand River Institute Project #2762, July 13, 2007]

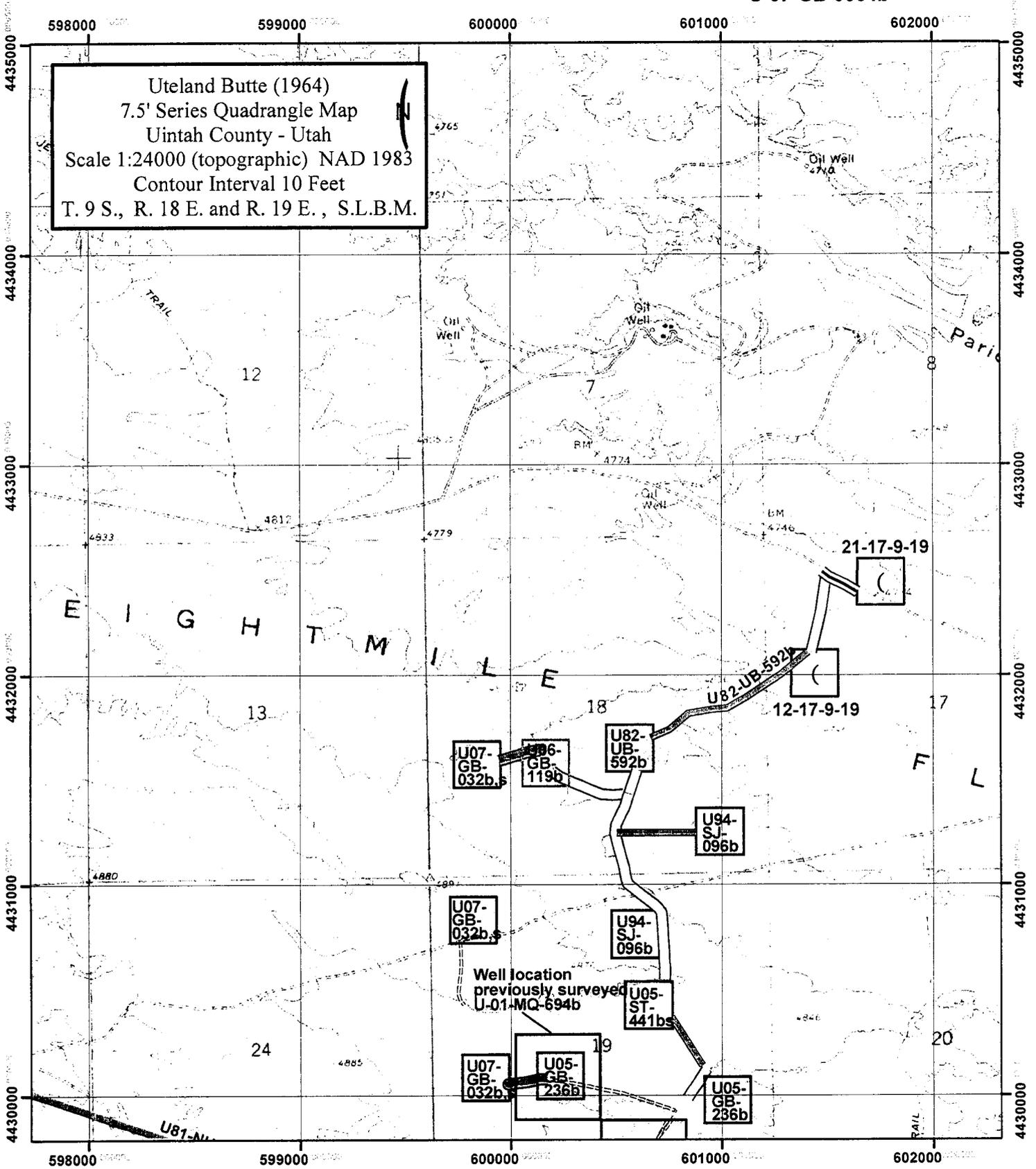


Figure 2. Project location map (2 of 4) for the Class III cultural resources inventory of 11 proposed well locations and related linear routes in Duchesne and Uintah Counties, Utah, for Gasco, Inc. Areas inventoried are highlighted. [Grand River Institute Project #2762, July 13, 2007]

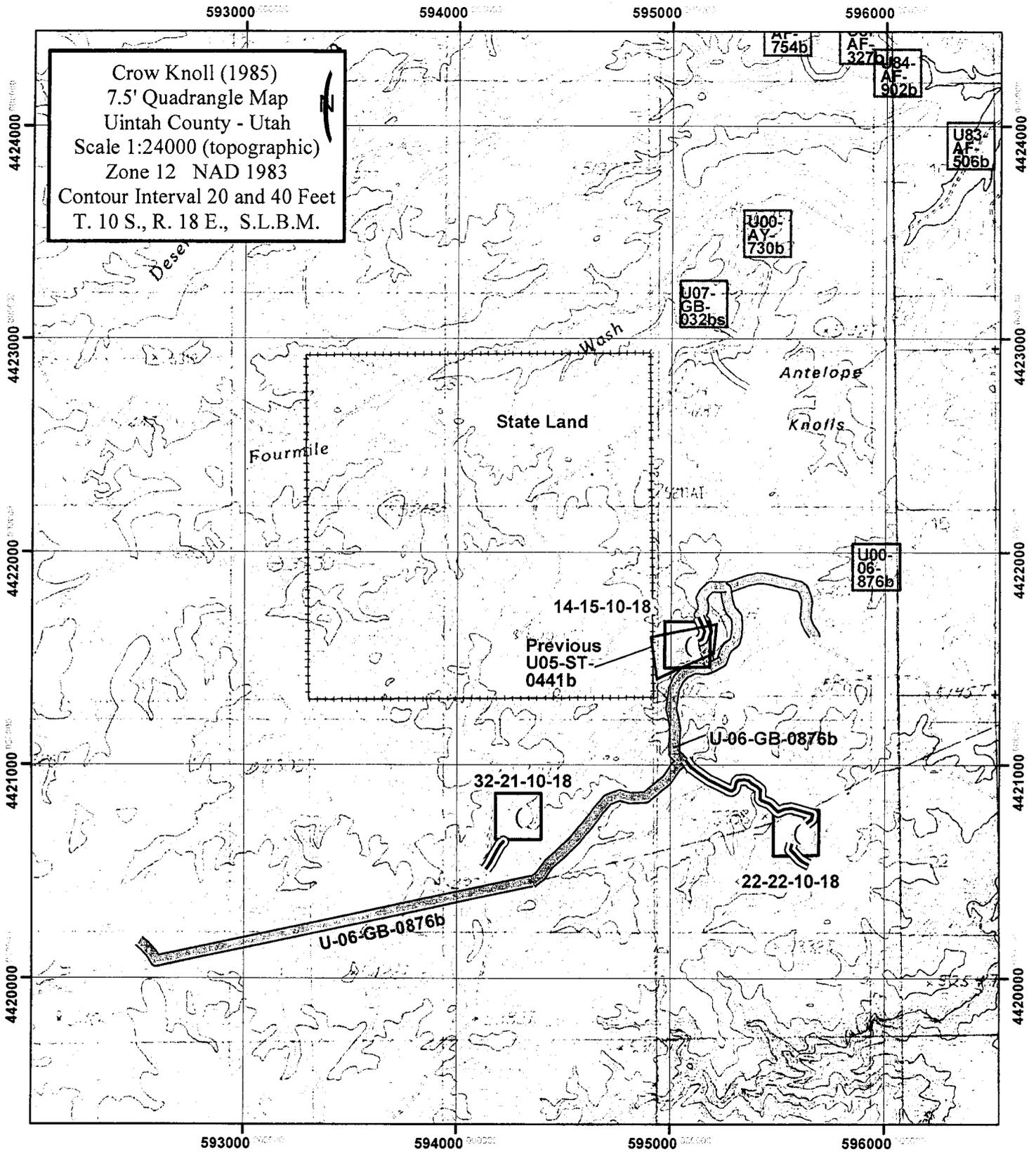


Figure 3. Project location map (3 of 4) for the Class III cultural resources inventory of 11 proposed well locations and related linear routes in Duchesne and Uintah Counties, Utah, for Gasco, Inc. Areas inventoried are highlighted. [Grand River Institute Project #2762, July 13, 2007]

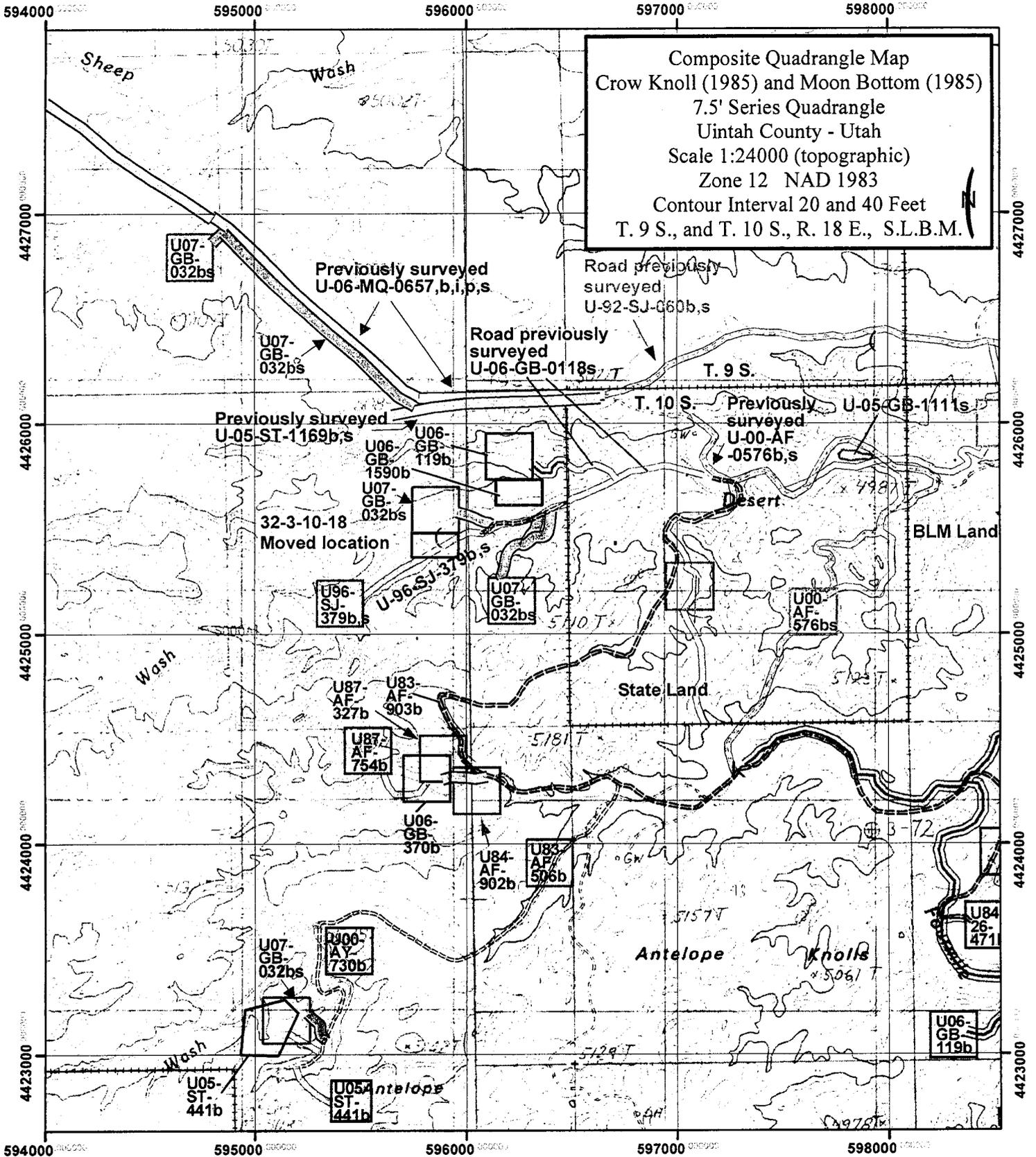


Figure 4. Project location map (4 of 4) for the Class III cultural resources inventory of 11 proposed well locations and related linear routes in Duchesne and Uintah Counties, Utah, for Gasco, Inc. Area inventoried is highlighted. [Grand River Institute Project #2762, July 13, 2007]

## Files Search

Files searches were conducted through BLM and UDSH. Previous projects in the areas near the inventory blocks and linear routes are numerous and generally relate to oil and gas development. Those that are adjacent to the project areas are listed below (Table 2).

**Table 2. List of previous projects near or adjacent to project's discrete areas.**

Well Designation	Associated Previous Project Reference
Fed. #12-17-9-19	None
Fed. #21-17-9-19	U-82-UB-592b
Wilkin Ridge Fed. #31-19-10-17	U-06-GB-120b
Wilkin Ridge Fed. #24-30-10-17	None
Wilkin Ridge Fed. #31-30-10-17	U-99-SC-357b
Wilkin Ridge Fed. #22-31-10-17	None
Wilkin Ridge Fed. #24-31-10-17	U-06-GB-120b
Uteland Fed. #32-3-10-18 (moved location)	U-07-GB-023bs
Antelope Fed. #14-15-10-18	U-05-ST-0441b, U-06-GB-0876b
Fed. #32-21-10-18	U-06-GB-0876b
Fed. #22-22-10-18	U-06-GB-0876b

The files search indicated that no sites were previously recorded within the 10-acre block surveyed for the well locations or the 200 foot-wide corridors inspected for the access roads or pipeline routes.

Few sites have been previously recorded within a mile of the projects' discrete areas. All those that are nearby are small prehistoric open lithic scatters (42UN1209, 42UN2290, 42UN2291 and 42UN5533).

Regional archaeological studies suggest nearly continuous human occupation of northeastern Utah for the past 12,000 years. Evidence of the Paleoindian Tradition, the Archaic Tradition, Fremont Culture, and Protohistoric/Historic Utes has been found. Historic records suggest occupation or use by EuroAmerican trappers, settlers, miners, and ranchers as well.

Overviews of the prehistory and history of the region are provided in the Utah BLM Cultural Resource Series No. 11, "Archaeological Inventory in the Seep Ridge Cultural Study Tract, Uintah County, Northeastern Utah with a Regional Predictive Model for Site Locations" (Larralde and Chandler 1980), and in "Cultural Resources Existing Data Inventory Vernal District, Utah" (Jones and Mackay 1980).

## **Study Objectives**

The purpose of the study was to identify and record all cultural resources within the areas of potential impact and to assess their significance and eligibility to the National Register of Historic Places (NRHP). The statements of significance included in this report are field assessments made in support of recommendations to the BLM and State Historic Preservation Officer (SHPO), and the final determination of site significance is made by the BLM in consultation with the SHPO.

Paleontological resources were also considered in the inspection. However, a final evaluation of those resources must be provided by a paleontologist permitted by Utah.

## **Field Methods**

A Class III, 100% pedestrian, cultural resources survey of the proposed well locations was made by walking a series of concentric circles around the flagged centers to diameters of 750 feet. The related access and pipeline routes not included within the 10-acre study plots (with the exception of Fed 32-3-10-18, which was relocated and needed only a 5-acre block) were surveyed by walking four parallel transects spaced at 15m intervals and centered on the flagged lines to cover corridors 200 feet wide.

Cultural resources were sought as surface exposures and were characterized as sites or isolated finds. Sites were defined by the presence of six or more artifacts and/or significant feature(s) indicative of patterned human activity. Isolated finds were defined by the presence of 1 to 5 artifacts apparently of surficial nature. Cultural resources encountered were to be recorded to standards set by the Preservation Office of the Utah Division of State History (UDSH).

The basic approach to the data collection was the continuous mapping of observed artifacts and features by recording UTM coordinates (NAD 83 Datum) using a Trimble Geo XT. Site maps were created using corrected data and ARCMAP. Photographs were taken at each site and included general views and specific artifacts or features. Field notes and photo negatives are filed at Grand River Institute, while the photographs are submitted to the BLM and UDSH. No artifacts were collected.

## Study Findings

As expected, limited cultural resources were encountered during the survey. This portion of the report presents a discussion of site significance evaluation, describes the sites and provides their field evaluations. Appendix A contains isolated find forms for the two recorded occurrences.

### Site Significance

The National Historic Preservation Act of 1966 (NHPA) directs federal agencies to ensure that federally-initiated or authorized actions do not inadvertently disturb or destroy significant cultural resource values. Significance is a quality of cultural resource properties that qualifies them for inclusion in the NRHP. The statements of significance included in this report are field assessments to support recommendations to the BLM and State Historic Preservation Officer (SHPO). The final determination of site significance is made by the controlling agencies in consultation with the SHPO and the Keeper of the Register.

The Code of Federal Regulations was used as a guide for the in-field site evaluations. Titles 36 CFR 50, 36 CFR 800, and 36 CFR 64 are concerned with the concepts of significance and (possible) historic value of cultural resources. Titles 36 CFR 65 and 36 CFR 66 provide standards for the conduct of significant and scientific data recovery activities. Finally, Title 36 CFR 60.4 establishes the measure of significance that is critical to the determination of a site's NRHP eligibility, which is used to assess a site's research potential:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and **a)** that are associated with events that have made a significant contribution to the broad patterns of history; or **b)** that are associated with the lives of persons significant in our past; or **c)** that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or **d)** that have yielded, or may be likely to yield, information important in the prehistory or history.

No significant sites were observed within the project areas. However, two isolated finds were recorded and are described herein:

**Isolated Find #1)** Historic trash scatter consisting of five cans (1940's to 1950's), 1 jar and wood scraps (pieces of 4 x 4 and 1 x ??)

**Isolated Find #2)** Prehistoric tested cobbles/core fragments (2) of greenstone.

## **Summary of Site Evaluations and Management Recommendations**

The eligibility determination and consultation process is guided by Section 106 of the NHPA (36 CFR 60, 63, and 800). Inventory to identify, evaluate, and mitigate potential effects to cultural resources affected by an undertaking is the first step in the Section 106 process. BLM actions cannot be authorized until the Section 106 process is completed (36 CFR 800.3). In brief, the inventory recorded two prehistoric sites. Neither were considered significant resources and are field evaluated as not eligible for nomination to the National Register of Historic Places. Accordingly, archaeological clearance is recommended for the proposed wells, new roads, and pipelines

## **References**

Jones, Kevin T. and K.L. Mackay

1980 Cultural Resources Existing Data Inventory Vernal District, Utah. Report of Investigations 80-18, University of Utah, Salt Lake City.

Larralde, Signa L. and Susan M. Chandler

1980 Archaeological inventory in the Seep Ridge Cultural Study Tract, Uintah County, Utah. In: Utah BLM Cultural Resource Series No. 11. Bureau of Land Management, Salt Lake City.

Rigby, J. Keith

1976 Northern Colorado Plateau. Kendall/Hunt Publishing Company. Dubuque.

**APPENDIX A: Cultural Resources Location Data and IMACS Forms**

**Table A-1. Location data for newly recorded isolated finds.**

<b>Site Number</b>	<b>Site Type</b>	<b>UTM Location NAD 83 (Zone 12)</b>
IF-1	Historic trash	580915mE; 4416961mN
IF-2	Tested cobbles (2)	601779mE; 4432470mN

# PALEONTOLOGY EVALUATION SHEET

---

**PROJECT:** GASCO ENERGY WELL – Wilkin Ridge Federal #24-31-10-17

**LOCATION:** Twenty five miles south of Roosevelt, Utah in 662' FSL 1978' FEL of section 31, T10S, R17E, Duchesne County, Utah.

**OWNERSHIP:** PRIV[ ] STATE[ ] BLM[X] USFS[ ] NPS[ ] IND[ ] MIL[ ] OTHER[ ]

**DATE:** July 27, 2007

**GEOLOGY/TOPOGRAPHY:** Rock exposures in the area are of the lower part of the lower member of the Uinta Formation, Upper Eocene age. Area has rounded valley bottoms and ridge tops. The location straddles a round top ridge with pit on the northwest side and most of the pad on the south side. The access road and pipeline come in from the north and northwest across several small drainages. The pipeline begins about a mile to the east and follows the existing road. Surface is weathered Uinta Formation with gray-green sandstone and tan limestone chunks up to one foot with intermittent rock exposures.

**PALEONTOLOGY SURVEY:** YES [X] NO Survey [ ] PARTIAL Survey [ ]

**SURVEY RESULTS:** Invertebrate [ ] Plant [X] Vertebrate [ ] Trace [ ] No Fossils Found [ ]  
Poorly preserved plant imprints were found along the pipeline. Recorded as locality 42Dc421P.

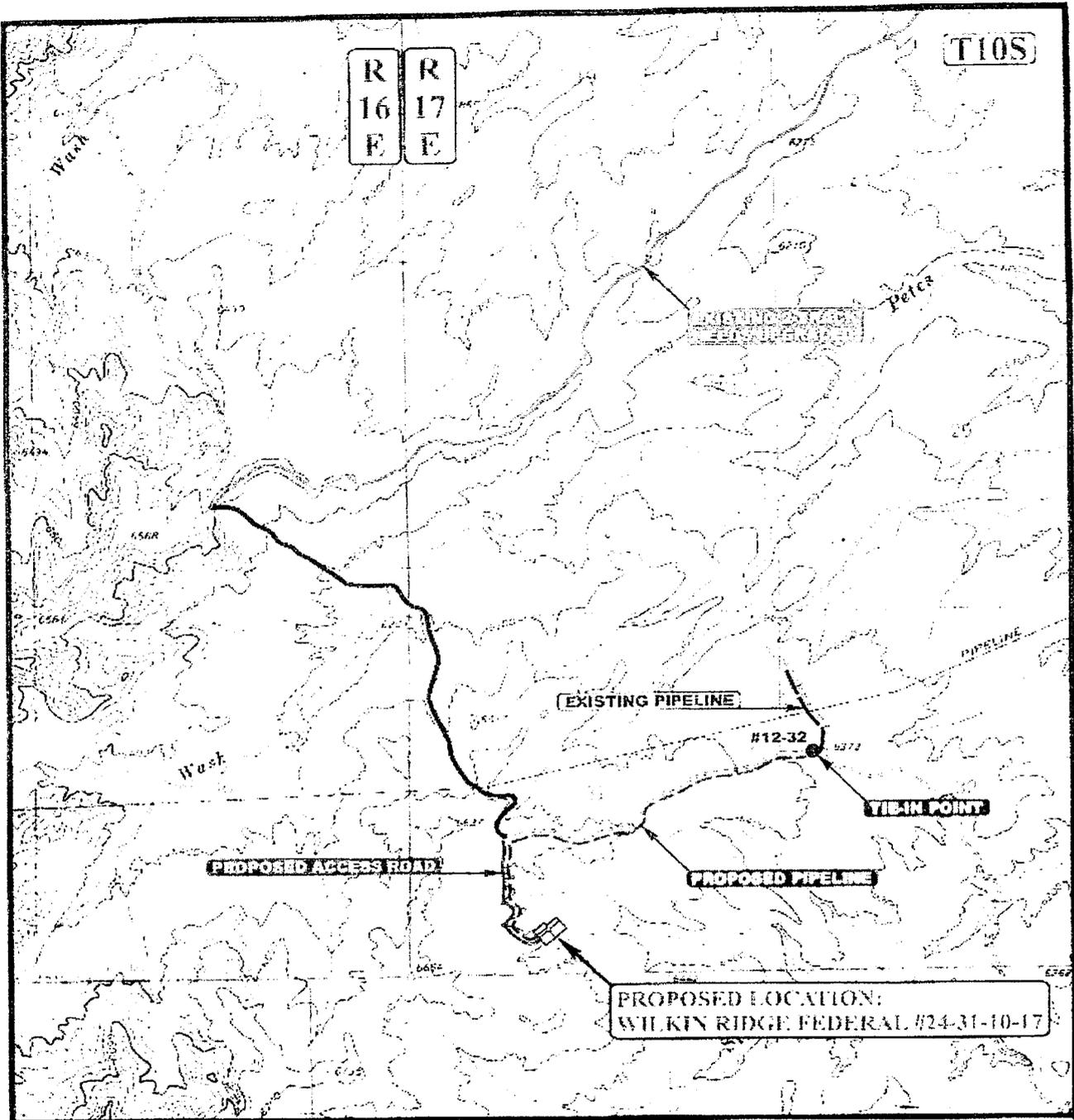
**PALEONTOLOGY SENSITIVITY:** HIGH [ ] MEDIUM [ ] LOW [X] (PROJECT SPECIFIC)

**MITIGATION RECOMMENDATIONS:** NONE [X] OTHER [ ] (SEE BELOW)

There is always some potential for discovery of significant paleontological resources in the Uinta Formation. If significant vertebrate fossils (mammals, crocodiles, complete turtle shells, etc.) are encountered during construction, work should stop in that area and a paleontologist contacted to evaluate the material discovered.

**PALEONTOLOGIST:** Alden H. Hamblin

*A.H. Hamblin Paleontological Consulting, 3793 N. Minersville Highway, Cedar City, Utah 84720 (435) 867-8355  
Utah State Paleontological Permit # 04-339, BLM paleontological Resources Permit # UT-S-05-02,  
Ute Tribe Access Permits – 03/31/06 & 09/30/06. Utah Professional Geologist License – 5223011-2250.*



APPROXIMATE TOTAL PIPELINE DISTANCE 6,550' --

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- EXISTING DRAINAGE DITCHES - UPGRADED



**GASCO PRODUCTION COMPANY**

WILKIN RIDGE FEDERAL #24-31-10-17  
 SECTION 31, T10S, R17E, S.L.B.&M.  
 662' FSL 1978' FSWL



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

TOPOGRAPHIC MAP  
 MONTH 07 DAY 17 YEAR 07  
 SCALE: 1" = 2000' DRAWN BY: C.E. (REVISED: 00-00-00)



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/03/2007

API NO. ASSIGNED: 43-013-33856
--------------------------------

WELL NAME: WILKIN RIDGE FED 24-31-10-17  
 OPERATOR: GASCO PRODUCTION ( N2575 )  
 CONTACT: VENESSA LANGMACHER

PHONE NUMBER: 303-857-9999

PROPOSED LOCATION:

SESW 31 100S 170E  
 SURFACE: 0662 FSL 1978 FWL  
 BOTTOM: 0662 FSL 1978 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 39.89502 LONGITUDE: -110.0506  
 UTM SURF EASTINGS: 581171 NORTHINGS: 4416327  
 FIELD NAME: UNDESIGNATED ( 2 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-076031  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: BLKHK  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

Plat

Bond: Fed[1] Ind[] Sta[] Fee[]  
 (No. UT-1233 )

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

Water Permit  
 (No. 43-1721 )

N RDCC Review (Y/N)  
 (Date: \_\_\_\_\_ )

N/A Fee Surf Agreement (Y/N)

N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_\_ R649-2-3.

Unit: WILKIN RIDGE DEEP

R649-3-2. General  
 Siting: 460 From Qtr/Qtr & 920' Between Wells

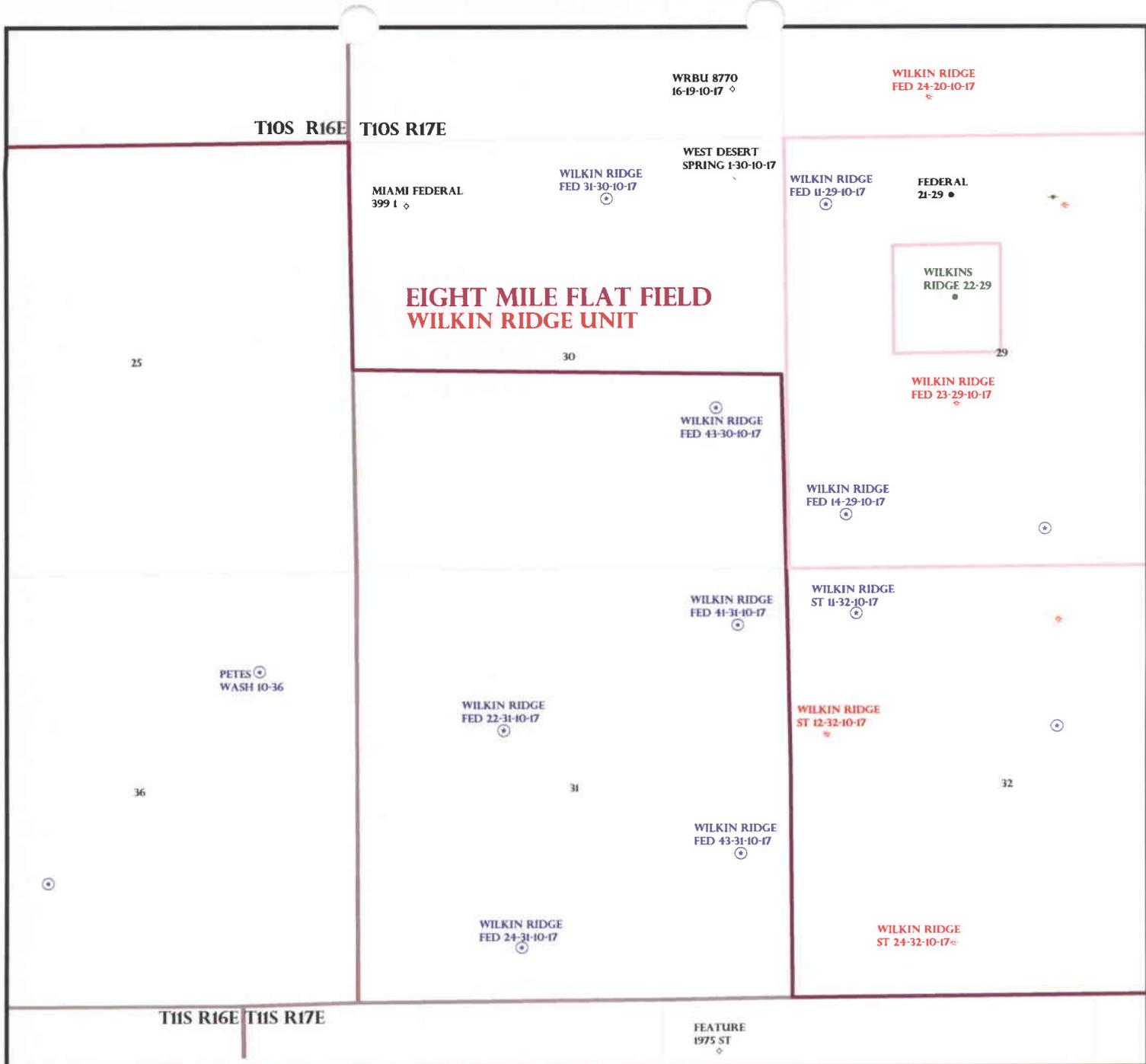
\_\_\_\_ R649-3-3. Exception

\_\_\_\_ Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Eff Date: \_\_\_\_\_  
 Siting: \_\_\_\_\_

\_\_\_\_ R649-3-11. Directional Drill

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

STIPULATIONS: \_\_\_\_\_  
 1. *Seal Approval*  
 2. *Spacing Strip*  
 \_\_\_\_\_  
 \_\_\_\_\_



OPERATOR: GASCO PROD CO (N2575)

SEC: 31 T.10S R. 17E

FIELD: UNDESIGNATED (002)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

**Wells Status**

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

**Field Status**

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

**Unit Status**

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



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 05-DECEMBER-2007

# 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)

December 5, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 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 wells are planned for calendar year 2007 within the Wilkin Ridge Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Blackhawk)		
43-013-33855	Wilkin Ridge Fed	31-30-10-17 Sec 30 T10S R17E 0704 FNL 2152 FEL
43-013-33856	Wilkin Ridge Fed	24-31-10-17 Sec 31 T10S R17E 0662 FSL 1978 FWL
43-013-33857	Wilkin Ridge Fed	22-31-10-17 Sec 31 T10S R17E 1969 FNL 1784 FWL
43-047-39796	Wilkin Ridge Fed	43-36-10-17 Sec 36 T10S R17E 2135 FSL 0784 FEL
43-047-39802	Wilkin Ridge Fed	32-21-10-18 Sec 21 T10S R18E 1816 FNL 2117 FEL

This office has no objection to permitting the wells 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:12-5-07



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

December 6, 2007

Gasco Production Company  
8 Inverness Drive East, Suite 100  
Englewood, CO 80112

Re: Wilkin Ridge Federal 24-31-10-17 Well, 662' FSL, 1978' FWL, SE SW, Sec. 31,  
T. 10 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33856.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt  
Associate Director

pab  
Enclosures

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

Operator: Gasco Production Company

Well Name & Number Wilkin Ridge Federal 24-31-10-17

API Number: 43-013-33856

Lease: UTU-076031

Location: SE SW                      Sec. 31                      T. 10 South                      R. 17 East

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

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

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

- Contact Dustin Doucet at (801) 538-5281 office      (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

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

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

**CONFIDENTIAL**

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-076031</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>NA</b>
		7. UNIT or CA AGREEMENT NAME: <b>NA</b>
1. TYPE OF WELL <b>OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input checked="" type="checkbox"/> <b>OTHER</b> _____	8. WELL NAME and NUMBER: <b>Wilkin Ridge Federal 24-31-10-17</b>	
2. NAME OF OPERATOR: <b>Gasco Production Company</b>		9. API NUMBER: <b>4301333856</b>
3. ADDRESS OF OPERATOR: <b>8 Inverness Dr E, Ste 100</b> CITY <b>Englewood</b> STATE <b>Co</b> ZIP <b>80112</b>	PHONE NUMBER: <b>(303) 483-0044</b>	10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>662' FSL &amp; 1978' FWL</b> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWSW 31 10S 17E</b>		COUNTY: <b>Duchesne</b> STATE: <b>UTAH</b>

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

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

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
**Gasco Production Company would like to request a one year extension on this APD from the date it is due to expire (12/6/2008)**

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 12-08-08  
By: [Signature]

NAME (PLEASE PRINT) <u>Jessica Berg</u>	TITLE <u>Production Clerk</u>
SIGNATURE <u>[Signature]</u>	DATE <u>12/1/2008</u>

(This space for State use only)

COPY SENT TO OPERATOR

Date: 12-9-2008

Initials: KS

(See Instructions on Reverse Side)

RECEIVED

DEC 02 2008

DIV. OF OIL, GAS & MINING

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

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

**API:** 4301333856  
**Well Name:** **Wilkin Ridge Federal 24-31-10-17**  
**Location:** **SE SW of Sec 31-T10S-R17E Duchesne County, UT**  
**Company Permit Issued to:** **Gasco Production Company**  
**Date Original Permit Issued:** **12/6/2007**

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

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

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

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

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

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

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

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

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

Jessica Berg  
Signature

12/1/2008

Date

Title: Production Clerk

Representing: Gasco Production Company

RECEIVED  
DEC 02 2008  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

RECEIVED  
VERNAL FIELD OFFICE  
2007 SEP 17 PM 2:26  
DEPT OF THE INTERIOR  
BUREAU OF LAND MGMT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		1. Lease Serial No. UTU-076031	
b. 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		2. Indian, Allottee or Tribe Name N/A	
2. Name of Operator Gasco Production Company		3. Unit or CA Agreement, Name and No. Wilkin Ridge	
3. Name of Agent Permitco Inc. - Agent		8. Lease Name and Well No. Wilkin Ridge Federal #24-31-10-17	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface: 662' FSL and 1978' FWL At proposed prod. zone: SE SW		9. API Well No. 43 013 33856	
14. Distance in miles and direction from nearest town or post office* Approximately 28.1 miles southwest of Myton, UT		10. Field and Pool, or Exploratory Wilkin Ridge	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'		11. Sec., T., R., M., or Blk. and Survey or Area Section 31, T10S-R17E	
16. No. of Acres in lease 359.2		12. County or Parish Duchesne	
17. Spacing Unit dedicated to this well 40 Acres; SE SW		13. State UT	
18. Distance from proposed* location to nearest well, drilling, completed, applied for, on this lease, ft. None		20. BLM/BIA Bond No. on file Bond #UT-1233	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6503' GL		22. Approximate date work will start* ASAP	
		23. Estimated duration 24 Days	

24. Attachments

**CONFIDENTIAL-TIGHT HOLE**

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

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

25. Signature <i>Venessa Langmacher</i>	Name (Printed/Typed) Venessa Langmacher	Date 9/10/2007
Title Authorized Agent for Gasco Production Company		
Approved by (Signature) <i>Jason Kewiczka</i>	Name (Printed/Typed) Jason Kewiczka	Date FEB 17 2009
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

Conditions of approval, if any, are attached. **CONDITIONS OF APPROVAL ATTACHED**

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

RECEIVED

\*(Instructions on reverse)

NOTICE OF APPROVAL

FEB 25 2009

NOS: 6/15/07  
07 PP 2199A

UDOGM

DIV. OF OIL, GAS & MINING



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

<b>Company:</b>	<b>Gasco Production Company</b>	<b>Location:</b>	<b>SESW, Sec. 31, T10S, R17E</b>
<b>Well No:</b>	<b>Wilkin Ridge Federal 24-31-10-17</b>	<b>Lease No:</b>	<b>UTU-76031</b>
<b>API No:</b>	<b>43-013-33856</b>	<b>Agreement:</b>	<b>Wilkin Ridge Unit</b>

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
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 COAs:**

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 re-spreading 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 shall 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 re-spread over the surface; and, the surface re-vegetated. The following seed mix shall be used, unless BLM personnel determine that conditions have changed and another mix will be more suitable:

	<b>Type</b>	<b>lbs./acre</b>
Shadscale	<i>Atriplex confertifolia</i>	3
Winterfat	<i>Eurotia lanata</i>	3
Galleta grass	<i>Hilaria jamesil</i>	3
Indian Rice Grass	<i>Oryzopsis hymenoides</i>	3
** Seed shall 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:**

- Production casing cement shall be brought up and into the surface casing. The minimum cement top is 2500 ft, which is above the surface casing shoe.  
COA specification is consistent with operators performance standard stated in APD.

**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\_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$ / $\frac{1}{4}$ , 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-076031
<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> WILKIN RIDGE DEEP
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> WILKIN RIDGE FED 24-31-10-17
<b>2. NAME OF OPERATOR:</b> GASCO PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013338560000
<b>3. ADDRESS OF OPERATOR:</b> 8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112	<b>PHONE NUMBER:</b> 303 483-0044 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0662 FSL 1978 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 31 Township: 10.0S Range: 17.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

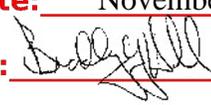
**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/6/2010	<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: _____

**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:** November 30, 2009

**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> 11/30/2009



**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 43013338560000**

**API:** 43013338560000

**Well Name:** WILKIN RIDGE FED 24-31-10-17

**Location:** 0662 FSL 1978 FWL QTR SESW SEC 31 TWNP 100S RNG 170E MER S

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

**Date Original Permit Issued:** 12/6/2007

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.

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

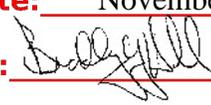
**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Roger Knight

**Date:** 11/30/2009

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

**Date:** November 30, 2009

**By:** 

<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-076031
<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> WILKIN RIDGE DEEP
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> WILKIN RIDGE FED 24-31-10-17
<b>2. NAME OF OPERATOR:</b> GASCO PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013338560000
<b>3. ADDRESS OF OPERATOR:</b> 8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112	<b>PHONE NUMBER:</b> 303 483-0044 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0662 FSL 1978 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 31 Township: 10.0S Range: 17.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED  <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: 12/6/2011  <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 type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" 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.

**Approved by the  
 Utah Division of  
 Oil, Gas and Mining**  
  
**Date:** 12/06/2010  
**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> 12/6/2010



**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 43013338560000**

**API:** 43013338560000

**Well Name:** WILKIN RIDGE FED 24-31-10-17

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

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- 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

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

**Signature:** Roger Knight

**Date:** 12/6/2010

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

**Date:** 12/06/2010

**By:** 

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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

**SUNDRY NOTICES AND REPORTS ON WELLS** FEB 09 2011  
*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. UTU76031
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 31 T10S R17E SESW 662FSL 1978FWL		8. Well Name and No. WILKIN RIDGE FEDERAL 24-31-10-17
		9. API Well No. 43-013-33856-00-X1
		10. Field and Pool, or Exploratory WILKIN RIDGE
		11. County or Parish, and State DUCHESNE 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 <input type="checkbox"/> 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 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.

VERNAL FIELD OFFICE

ENG. CTD

GEOL. \_\_\_\_\_

E.S. \_\_\_\_\_

PET. \_\_\_\_\_

RECL. \_\_\_\_\_

RECEIVED

APR 18 2011

DIV OF OIL GAS & MINING  
CONDITIONS OF APPROVAL ATTACHED

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

Electronic Submission #102255 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 (11RRH1146SE)

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 <u>[Signature]</u>	Title Assistant Field Manager Lands & Mineral Resources	Date APR 11 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 \*\*

110041146SE

# CONDITIONS OF APPROVAL

## Gasco Production Company

### Notice of Intent APD Extension

**Lease:** UTU-76031  
**Well:** Wilkin Ridge Federal 24-31-10-17  
**Location:** SESW Sec 31-T10S-R17E

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

---

1. The extension and APD shall expire on 02/16/2013.
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>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-076031
<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> WILKIN RIDGE DEEP
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> WILKIN RIDGE FED 24-31-10-17
<b>2. NAME OF OPERATOR:</b> GASCO PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013338560000
<b>3. ADDRESS OF OPERATOR:</b> 8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112	<b>PHONE NUMBER:</b> 303 483-0044 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0662 FSL 1978 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 31 Township: 10.0S Range: 17.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED  <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: 12/6/2012	<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
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
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**Approved by the Utah Division of Oil, Gas and Mining**

**Date:** 12/08/2011

**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> 12/5/2011	



**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 43013338560000**

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**Well Name:** WILKIN RIDGE FED 24-31-10-17

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**Date:** 12/5/2011

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**Date:** 12/5/2011

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

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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: 12/6/2012  <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 type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" 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:** 12/08/2011

**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> 12/5/2011	



**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 43013338560000**

**API:** 43013338560000

**Well Name:** WILKIN RIDGE FED 24-31-10-17

**Location:** 0662 FSL 1978 FWL QTR SESW SEC 31 TWNP 100S RNG 170E MER S

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

**Date Original Permit Issued:** 12/6/2007

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:** 12/5/2011

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

<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-076031
<b>2. NAME OF OPERATOR:</b>	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> _____ <b>PHONE NUMBER:</b> _____ , , , Ext	<b>7. UNIT or CA AGREEMENT NAME:</b> WILKIN RIDGE DEEP
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0662 FSL 1978 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 31 Township: 10.0S Range: 17.0E Meridian: S	<b>8. WELL NAME and NUMBER:</b> WILKIN RIDGE FED 24-31-10-17
	<b>9. API NUMBER:</b> 43013338560000
	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED
	<b>COUNTY:</b> DUCHESNE
	<b>STATE:</b> UTAH

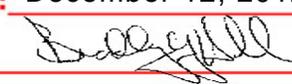
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 12/6/2013	<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
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	<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:** December 12, 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> 12/10/2012	



**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 43013338560000**

API: 43013338560000

Well Name: WILKIN RIDGE FED 24-31-10-17

Location: 0662 FSL 1978 FWL QTR SESW SEC 31 TWNP 100S RNG 170E MER S

Company Permit Issued to: GASCO PRODUCTION COMPANY

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- 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: 12/10/2012

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,



Roger L. Bankert  
Chief, Branch of Minerals

Enclosure

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



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Green River District  
Vernal Field Office  
170 South 500 East  
Vernal, UT 84078

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

September 10, 2013

IN REPLY REFER TO:  
3160 (UTG011)

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

43 013 33329

Re: Notice of Expiration  
Well No. Wilkin Ridge 24-31-10-17  
SESW, Sec. 31, T10S, R17E  
Duchesne County, Utah  
Lease No. UTU-76031

Dear Mr. Rogers:

The Application for Permit to Drill (APD) for the above-referenced well was approved on February 17, 2009. A two (2) year extension of the original APD was requested. The request was reviewed and the extension approved until February 16, 2013. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact Robin R. Hansen at (435) 781-3428.

Sincerely,

/s/ Jerry Kenczka

Jerry Kenczka  
Assistant Field Manager  
Lands & Mineral Resources

cc: UDOGM

bcc: Well File  
I&E Asst.

RECEIVED

SEP 20 2013

DIV. OF OIL, GAS & MINING