



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

November 20, 2006

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

Attn: Diana Whitney

Re: **Gasco Production Company**  
**Wilkin Ridge State #21-16-10-17**  
**659' FNL and 1970' FWL**  
**NE NW Section 16, T10S - R17E**  
**Duchesne County, Utah**

Dear Diana,

Enclosed please find two copies of the Application for Permit to Drill, along with the required drilling program, BOP diagram, wellsite maps and diagrams.

Please note, the archeological and paleontological reports will be sent to you directly by Grand River Institute and Alden Hamblin.

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 - Roosevelt, UT  
Shon McKinnon - Altamont, UT  
Utah Division of Oil, Gas & Mining - Roosevelt, UT

RECEIVED  
NOV 22 2006

DIV. OF OIL, GAS & MINING

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO.: <b>ML-48928</b>	6. SURFACE: <b>State</b>
1A. TYPE OF WORK: <b>DRILL <input checked="" type="checkbox"/></b> 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 State #21-16-10-17</b>	
3. ADDRESS OF OPERATOR: <b>8 Inverness Drive East, Suite 100, Englewood, CO 80112</b>		PHONE NUMBER: <b>303/483-0044</b>	10. FIELD AND POOL, OR WILDCAT: <del>Wilkin Ridge</del> <b>undesignated</b>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>584300X 4422335Y 39-14-9377</b> AT PROPOSED PRODUCING ZONE: <b>659' FNL and 1970' FWL NE NW -110.013150</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE MERIDIAN: <b>Section 16, T10S - R17E</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>Approximately 22.1 miles south of Myton, UT</b>		12. COUNTY: <del>Uintah</del> <b>Duchesne</b>	13. STATE: <b>UT</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): <b>659'</b>	16. NUMBER OF ACRES IN LEASE: <b>600</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40 Acres: NE NW</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): <b>None</b>	19. PROPOSED DEPTH: <b>13,285'</b>	20. BOND DESCRIPTION: <b>Statewide Bond No. 4127763</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5792' GL</b>	22. APPROXIMATE DATE WORK WILL START: <b>ASAP</b>	23. ESTIMATED DURATION: <b>35 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", H-40, 48#	200'	200 sx Premium Type 5, 15.6 ppg, 1.18 yield
12-1/4"	8-5/8", J-55, 32#	3,765'	641 sx Hi-Lift @ 11.0 ppg, 3.91 yield & 185 sx 10-2 RFC @ 14.2 ppg, 1.63 yield
7-7/8"	4-1/2", P-110, 13.5#	13,285'	523 sx Hi-Lift @ 11.5 ppg, 3.05 yield & 1401 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 PLAN                                   |
| <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 20, 2006**

(This space for State use only)

API NUMBER ASSIGNED: **43-047-38823**  
**43-013-33547**

(11/2001)

Approved by the  
Utah Division of  
Oil, Gas and Mining

APPROVAL  
Date: **01-16-07**  
By: *[Signature]*

RECEIVED  
NOV 22 2006

DEPT. OF OIL, GAS & MINING

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

**GASCO PRODUCTION COMPANY**

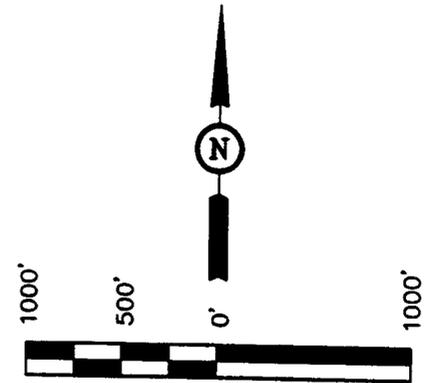
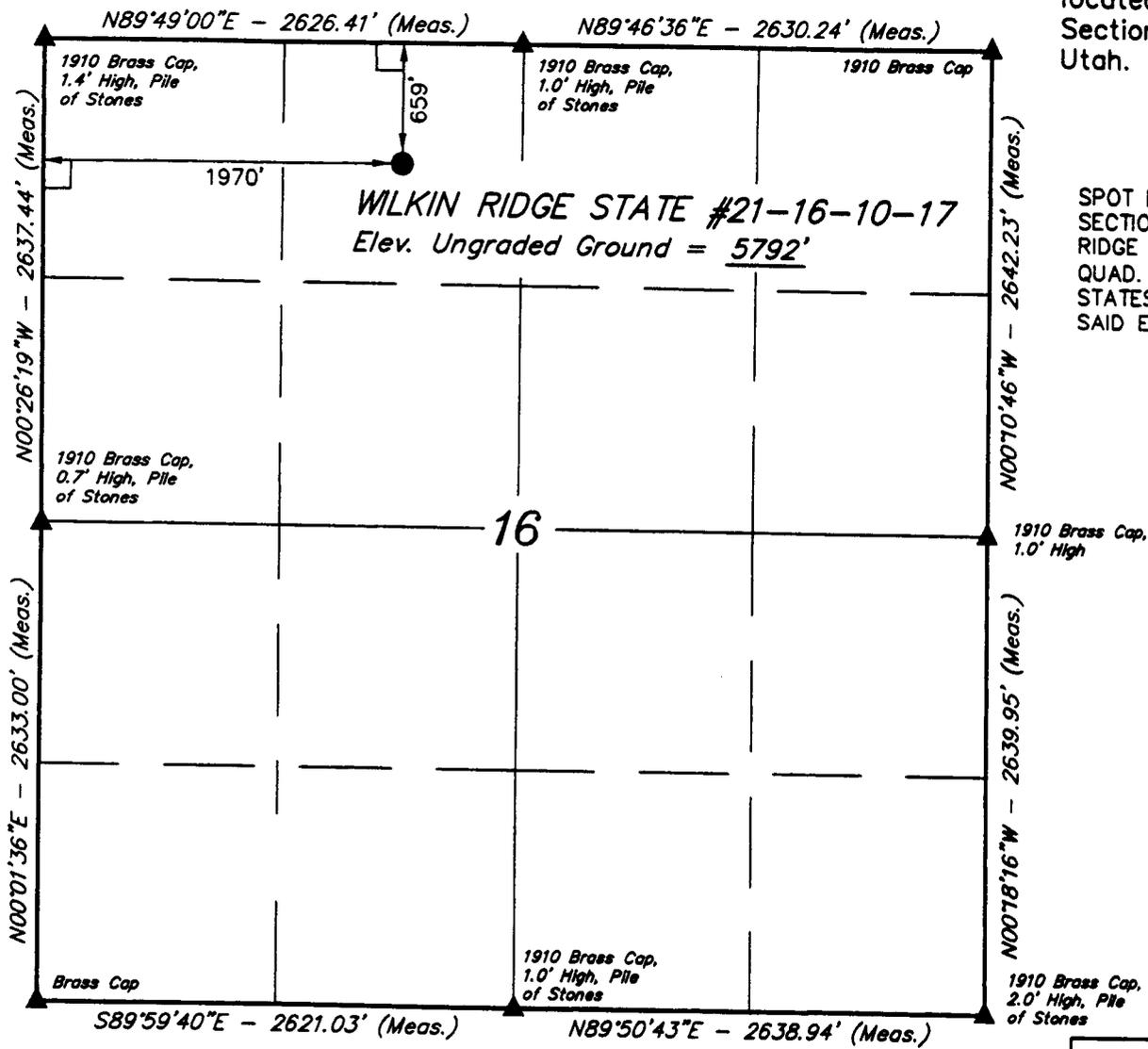
Well location, WILKIN RIDGE STATE #21-16-10-17, located as shown in the NE 1/4 NW 1/4 of Section 16, T10S, R17E, S.L.B.&M. Duchesne County, Utah.

**BASIS OF BEARINGS**

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

**BASIS OF ELEVATION**

SPOT ELEVATION NEAR A 2-TRACK IN THE SW 1/4 OF SECTION 20, T10S, R17E, S.L.B.&M. TAKEN FROM THE WILKIN RIDGE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6275 FEET.



**CERTIFIED**  
 THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.  
**ROBERT L. ...**  
 REGISTERED LAND SURVEYOR  
 STATE OF UTAH

(AUTONOMOUS NAD 83)  
 LATITUDE = 39°56'57.72" (39.949367)  
 LONGITUDE = 110°00'50.01" (110.013892)  
 (AUTONOMOUS NAD 27)  
 LATITUDE = 39°56'57.85" (39.949403)  
 LONGITUDE = 110°00'47.47" (110.013186)

**LEGEND:**  
 L = 90° SYMBOL  
 ● = PROPOSED WELL HEAD.  
 ▲ = SECTION CORNERS LOCATED.

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 11-06-06	DATE DRAWN: 11-10-06
PARTY J.W. B.D. S.L.		REFERENCES G.L.O. PLAT
WEATHER COOL		FILE GASCO PRODUCTION COMPANY

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

FORM 3

AMENDED REPORT   
(highlight changes)

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AGENT'S PHONE NO.: **303/857-9999**

NAME (PLEASE PRINT) **Venessa Langmacher**

TITLE **Agent for Gasco Production Company**

SIGNATURE *Venessa Langmacher*

DATE **November 20, 2006**

(This space for State use only)

API NUMBER ASSIGNED: **43-047-38883**

Approved by the  
Utah Division of  
Oil, Gas and Mining

RECEIVED  
NOV 22 2006

(11/2001)

Date: *01-18-07*  
see instructions on Reverse side

By: *[Signature]*

DIV. OF OIL, GAS & MINING

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

## GASCO PRODUCTION COMPANY

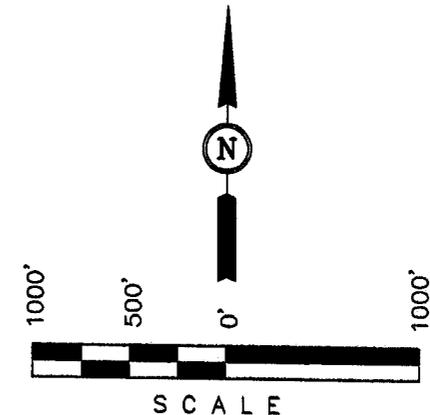
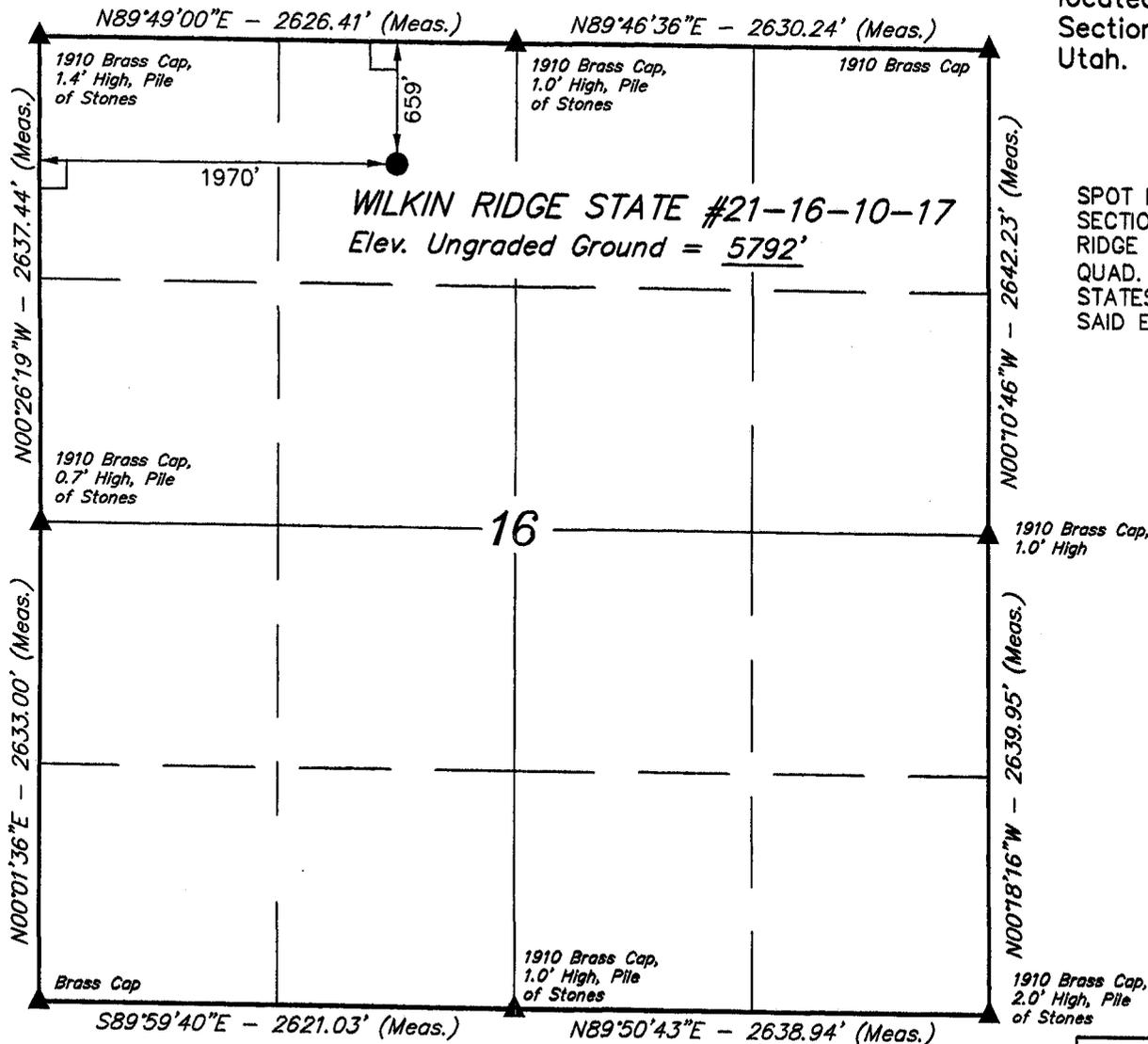
Well location, WILKIN RIDGE STATE #21-16-10-17, located as shown in the NE 1/4 NW 1/4 of Section 16, T10S, R17E, S.L.B.&M. Duchesne County, Utah.

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CERTIFIED  
 REGISTERED LAND SURVEYOR  
 ROBERT L. [Signature]  
 REGISTERED LAND SURVEYOR  
 PROFESSIONAL NO. 1001  
 STATE OF UTAH

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

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

SCALE 1" = 1000'	DATE SURVEYED: 11-06-06	DATE DRAWN: 11-10-06
PARTY J.W. B.D. S.L.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE GASCO PRODUCTION COMPANY	

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 (AUTONOMOUS NAD 27)  
 LATITUDE = 39°56'57.85" (39.949403)  
 LONGITUDE = 110°00'47.47" (110.013186)

The proposed wellsite is located on State Surface/State Minerals.

1. **Estimated Tops/Geologic Markers**

The estimated tops of important geologic markers are as follows:

<i>Formation</i>	<i>Depth</i>	<i>Subsea</i>
Wasatch	5,215'	+580'
Mesaverde	9,365'	-3,570'
Castlegate	12,055'	-6,270'
Blackhawk	12,300'	-6,505'
Aberdeen	12,985'	-7,190'
T.D.	13,285'	-7,490'

2. **Estimated Depths and Names of Anticipated Water, Oil, Gas or Other Minerals Bearing Formations.**

<i>Substance</i>	<i>Formation</i>	<i>Depth</i>
Gas	Wasatch	5,500'-9,365'
Gas	Mesaverde	9,365'-12,055'
Gas	Blackhawk	12,300'-13,185'

3. **Well Control Equipment & Testing Procedures**

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

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



Gasco will comply with all requirements pertaining to well control as listed in the Rule R649-3-7 of the Utah Division of Oil, Gas & Mining.

The size and rating of the BOP stack is shown on the attached diagram.

**4. Casing Program**

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>
Surface	0-200'	17-1/2"	13-3/8"	48#	H-40	---	New
Intermediate	0-3,765'	12-1/4"	8-5/8"	32#	J-55	ST&C	New
Production	0-13,285'	7-7/8"	4-1/2"	13.5#	P-110	LT&C	New

Casing design subject to revision based on geologic conditions encountered.

**5. Cement Program**

<i>Conductor</i>	<i>Type and Amount</i>
TOC @ Surface	200 sx Premium Type 5 mixed at 15.6 ppg, yield 1.18
<i>Surface</i>	<i>Type and Amount</i>
TOC @ Surface	Lead: 641 sx Hi-Lift @ 11 ppg, yield 3.91 Tail: 185 sx 10-2 RFC @ 14.2 ppg, yield 1.63
<i>Production</i>	<i>Type and Amount</i>
TOC @ 2,500'	Lead: 523 sx Hi-Lift @ 11.5 ppg, yield 3.05 Tail: 1401 sx 50-50 Poz #14.1 ppg, yield 1.28



6. **Drilling Fluids**

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

Interval	Mud Type	Mud Wt.	Visc.	F/L	PH
0 - 200'	Fresh Water	8.33	1	N/C	7
200' - 3,765'	Fresh Water	8.33	1	N/C	7-8
3,765' - TD	Fresh Water & DAP	9.0-11.5	30-40	12-20	8

7. **Testing, Logging and Coring**

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

- a. No drill stem tests are anticipated.
- b. The logging program will consist of a Schlumberger Platform Express or equivalent from Base of Surface Casing to T.D.
- c. No cores are anticipated.

8. **Anticipated Pressures and H<sub>2</sub>S**

- a. No H<sub>2</sub>S is expected.
- b. The maximum anticipated bottom hole pressure is 7440 psi. The maximum anticipated bottom hole temperature is 226 degrees Fahrenheit.

9. **Water Source**

- a. All water used for the drilling of this well will be purchased the Nebeker Water Station in Myton, UT. Permit No. 43-1721.



10. **Other Information**

- a. Drilling is planned to commence upon approval of this application.
- b. It is anticipated that the drilling of this well will take approximately 35 days.
- c. Lining of the reserve pit will be done if deemed necessary by the Utah Division of Oil, Gas and Mining.
- d. At the end of drilling operations the location will be reclaimed and re-seeded as requested by the surface owner.
- e. Surface Ownership

State of Utah



Wilkin Ridge State #21-16-10-17  
659' FNL and 1970' FWL  
NE NW Section 16, T10S - R17E  
Duchesne County, Utah

Prepared For:

Gasco Production Company

By:

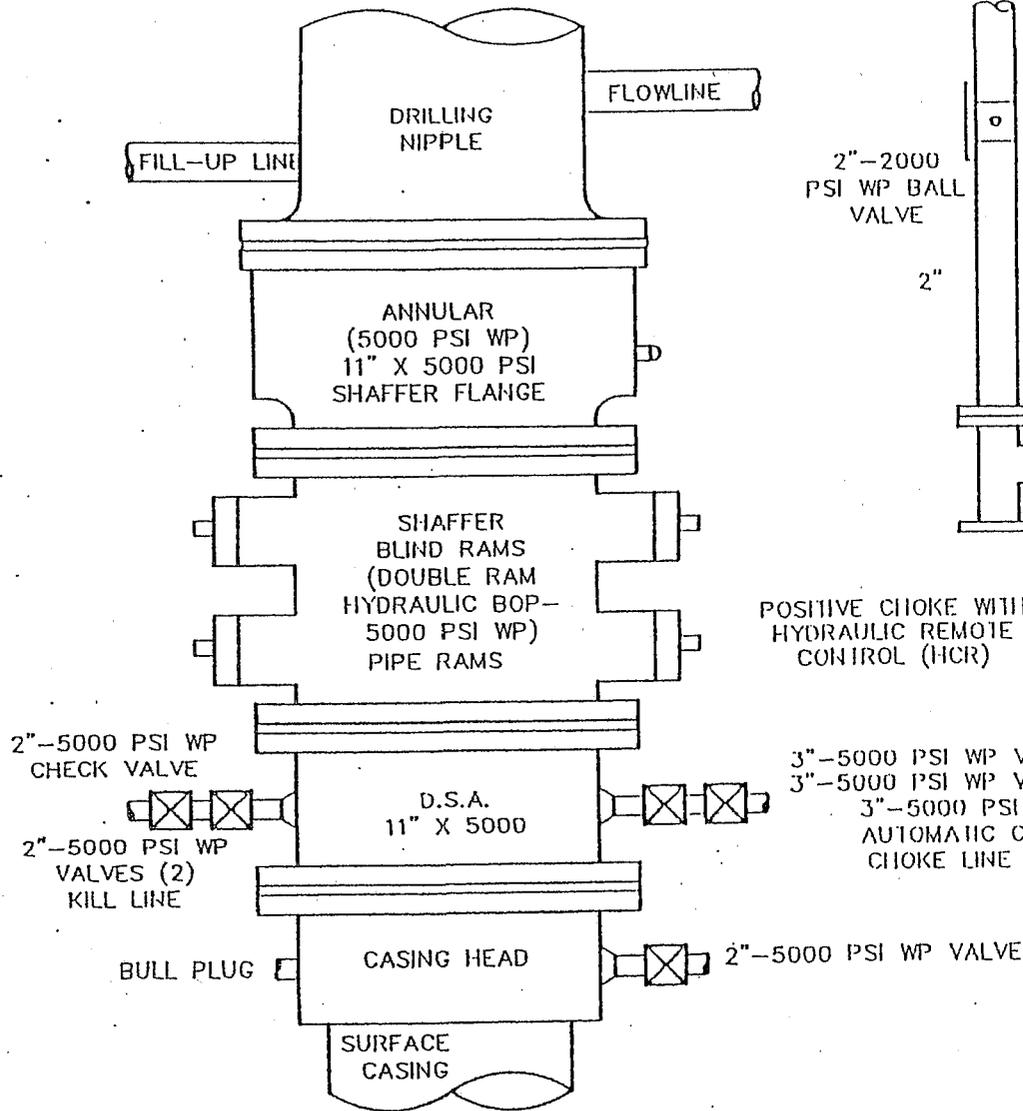
PERMITCO INC.  
14421 County Road 10  
Fort Lupton, CO 80621  
303/857-9999

Copies Sent To:

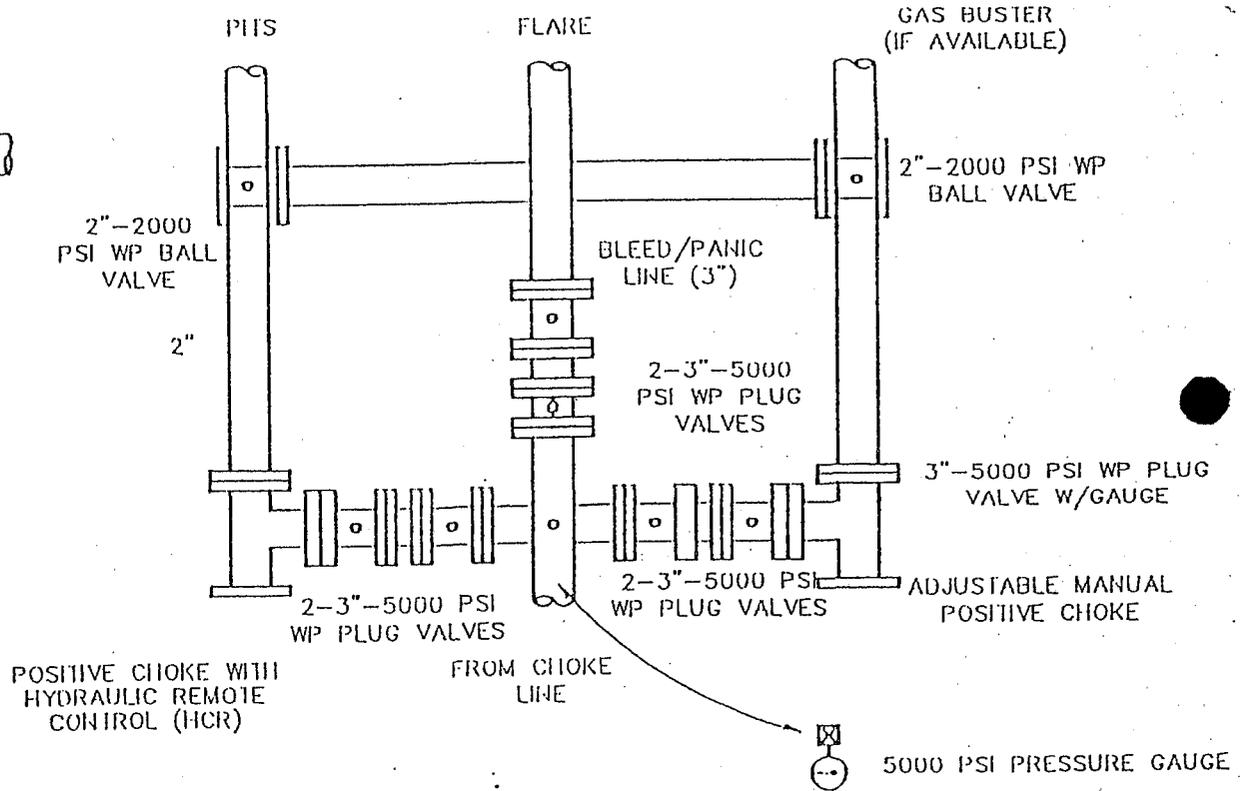
- 2 - Utah Division of Oil, Gas & Mining - SLC, UT
- 1 - Utah Division of Oil, Gas & Mining - Roosevelt, UT
- 2 - Gasco Production Company - Englewood, CO
- 1 - Gasco Production Company - Roosevelt, UT
- 1 - Shon McKinnon - Altamont, UT



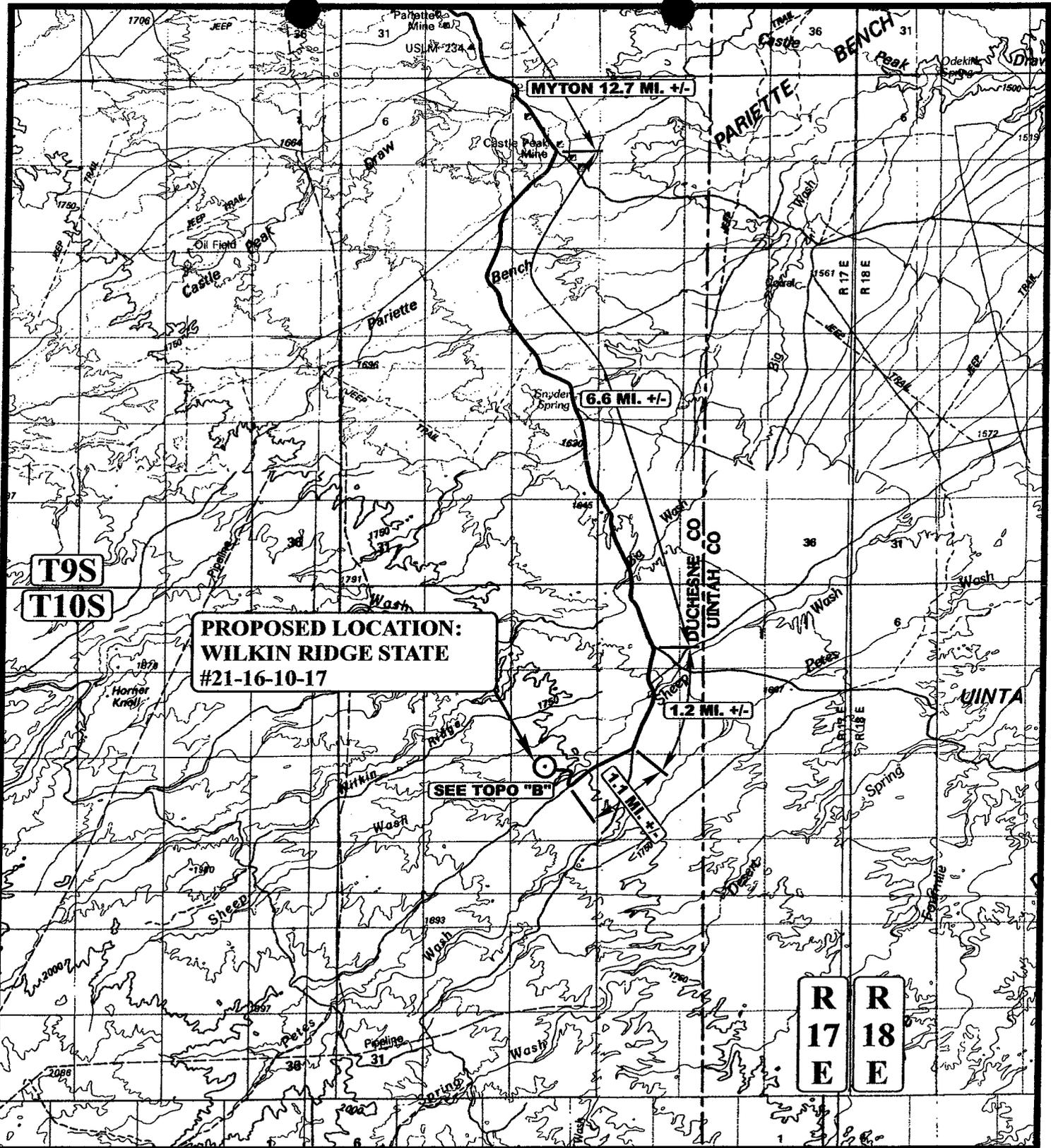
**BOP SCHEMATIC**  
5000 PSI WORKING PRESSURE



**PLAN VIEW CHIOKE MANIFOLD**



THE HYDRAULIC CLOSING UNIT WILL BE LOCATED MORE THAN 30' FROM THE WELLHEAD. CHIOKE AND BLEED/PANIC LINES WILL GO TO THE PIT AND FLARE. ALL CONNECTIONS IN CHIOKE 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.



**PROPOSED LOCATION:  
WILKIN RIDGE STATE  
#21-16-10-17**

**SEE TOPO "B"**

**LEGEND:**

⊙ PROPOSED LOCATION

**GASCO ENERGY, INC.**

**WILKIN RIDGE STATE #21-16-10-17  
SECTION 16, T10S, R17E, S.L.B.&M.  
659' FNL 1970' FWL**



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



**TOPOGRAPHIC  
MAP**

**11 08 06**  
MONTH DAY YEAR

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



**GASCO ENERGY, INC.**  
**WILKIN RIDGE STATE #21-16-10-17**  
 LOCATED IN DUCHESNE COUNTY, UTAH  
 SECTION 16, T10S, R17E, S.L.B.&M.

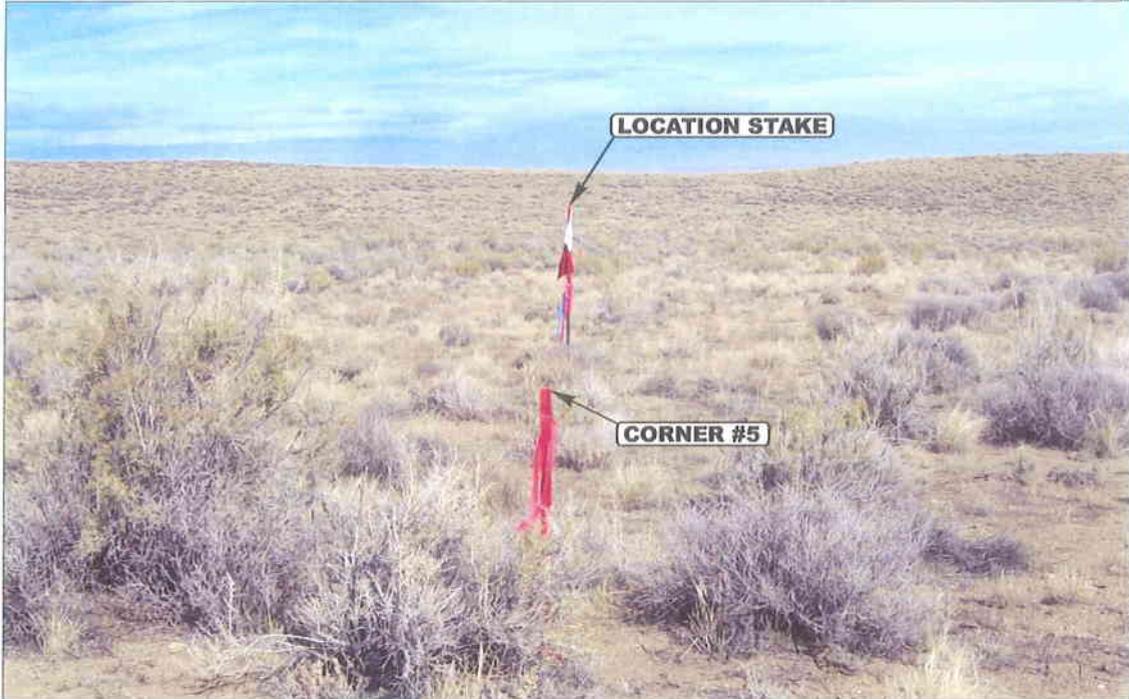


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

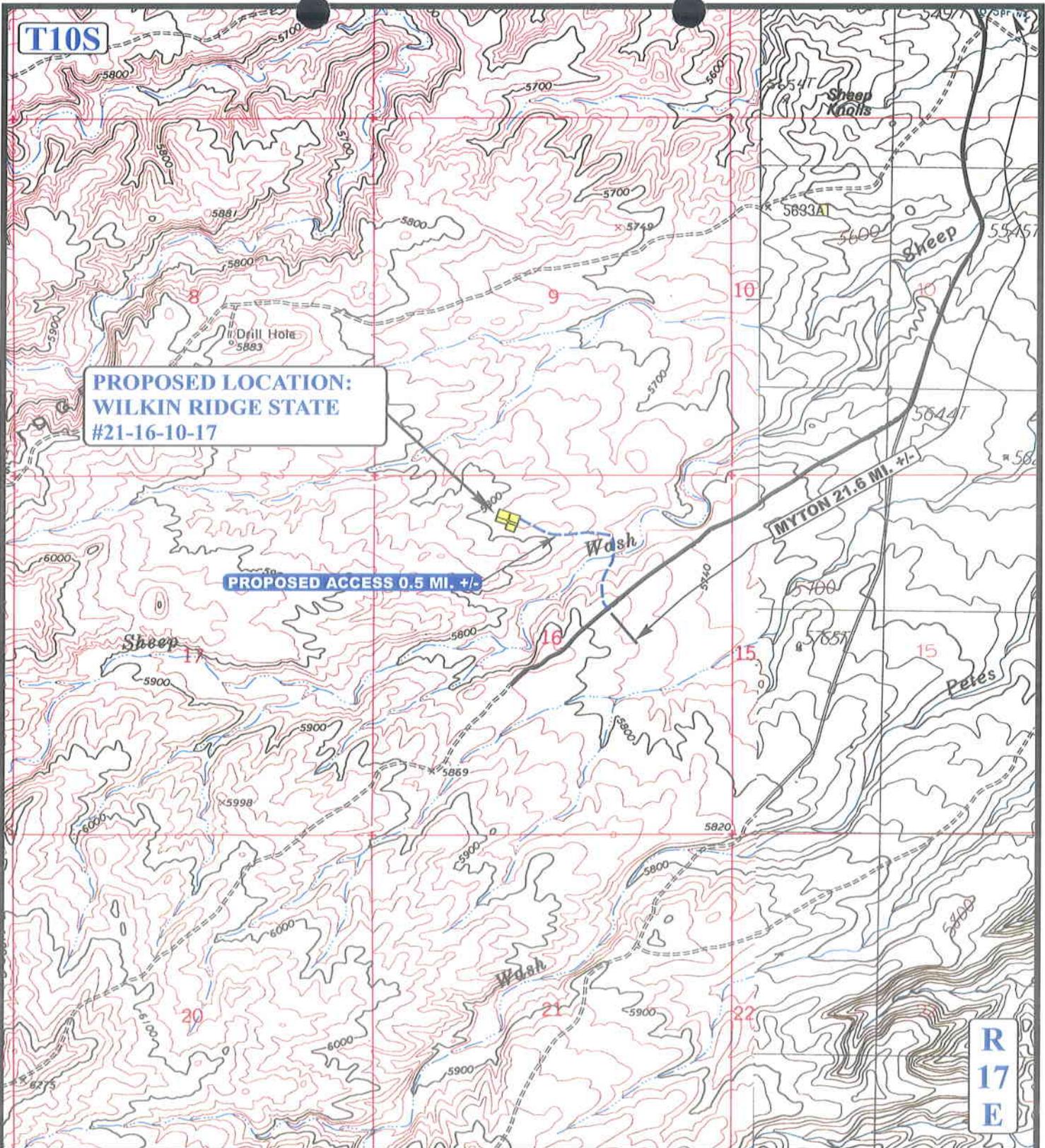
CAMERA ANGLE: NORTHERLY



- Since 1964 -

**U** **E** **L** **S** **U**intah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

<b>LOCATION PHOTOS</b>			<b>11</b>	<b>08</b>	<b>06</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: J.W.		DRAWN BY: L.K.		REVISED: 00-00-00		



**PROPOSED LOCATION:  
WILKIN RIDGE STATE  
#21-16-10-17**

**PROPOSED ACCESS 0.5 MI. +/-**

**MYTON 21.6 MI. +/-**

**R  
17  
E**

**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



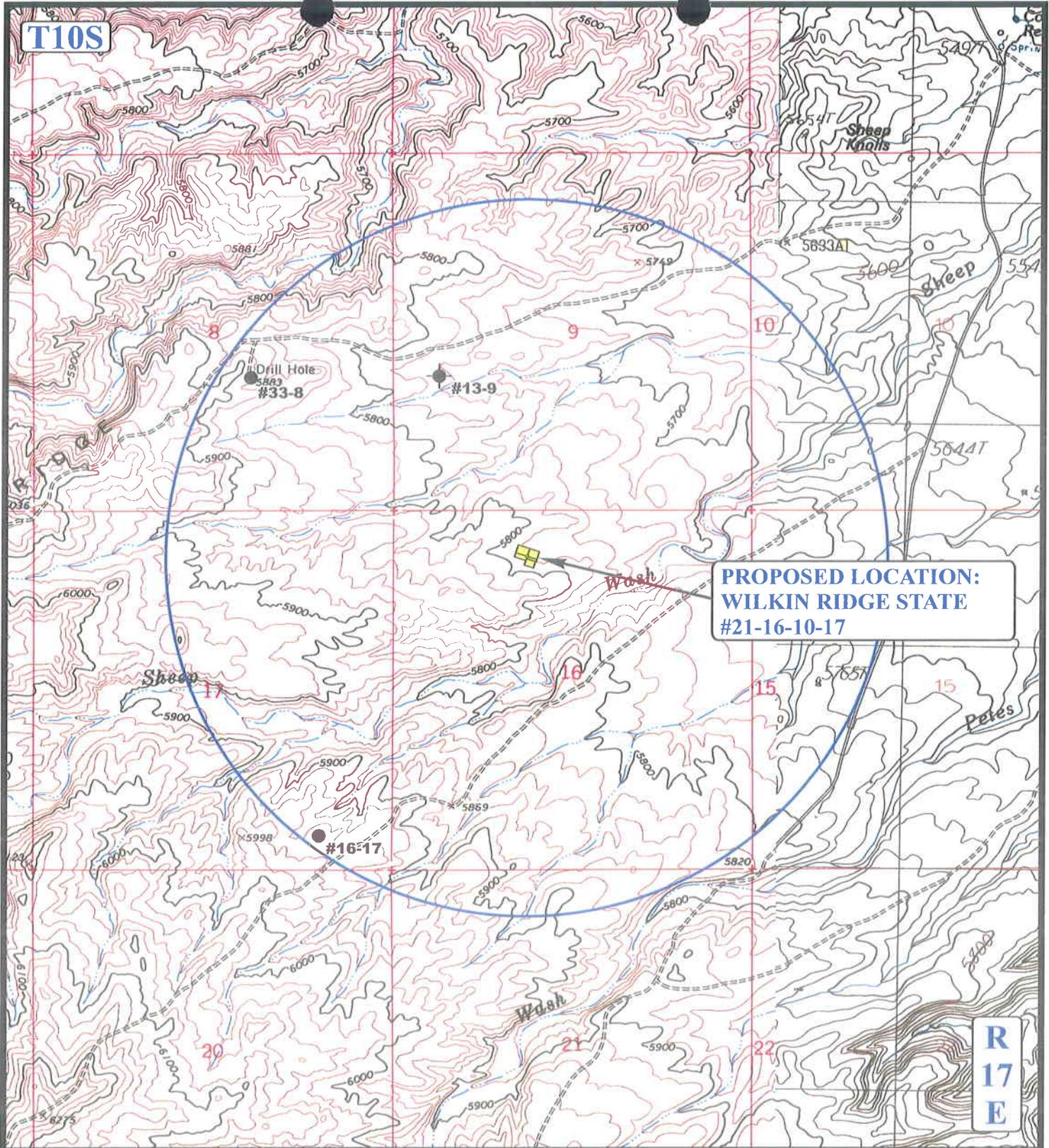
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**UEIS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** **11 08 06**  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00

**B**  
TOPO



**PROPOSED LOCATION:  
WILKIN RIDGE STATE  
#21-16-10-17**

**LEGEND:**

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



**GASCO ENERGY, INC.**

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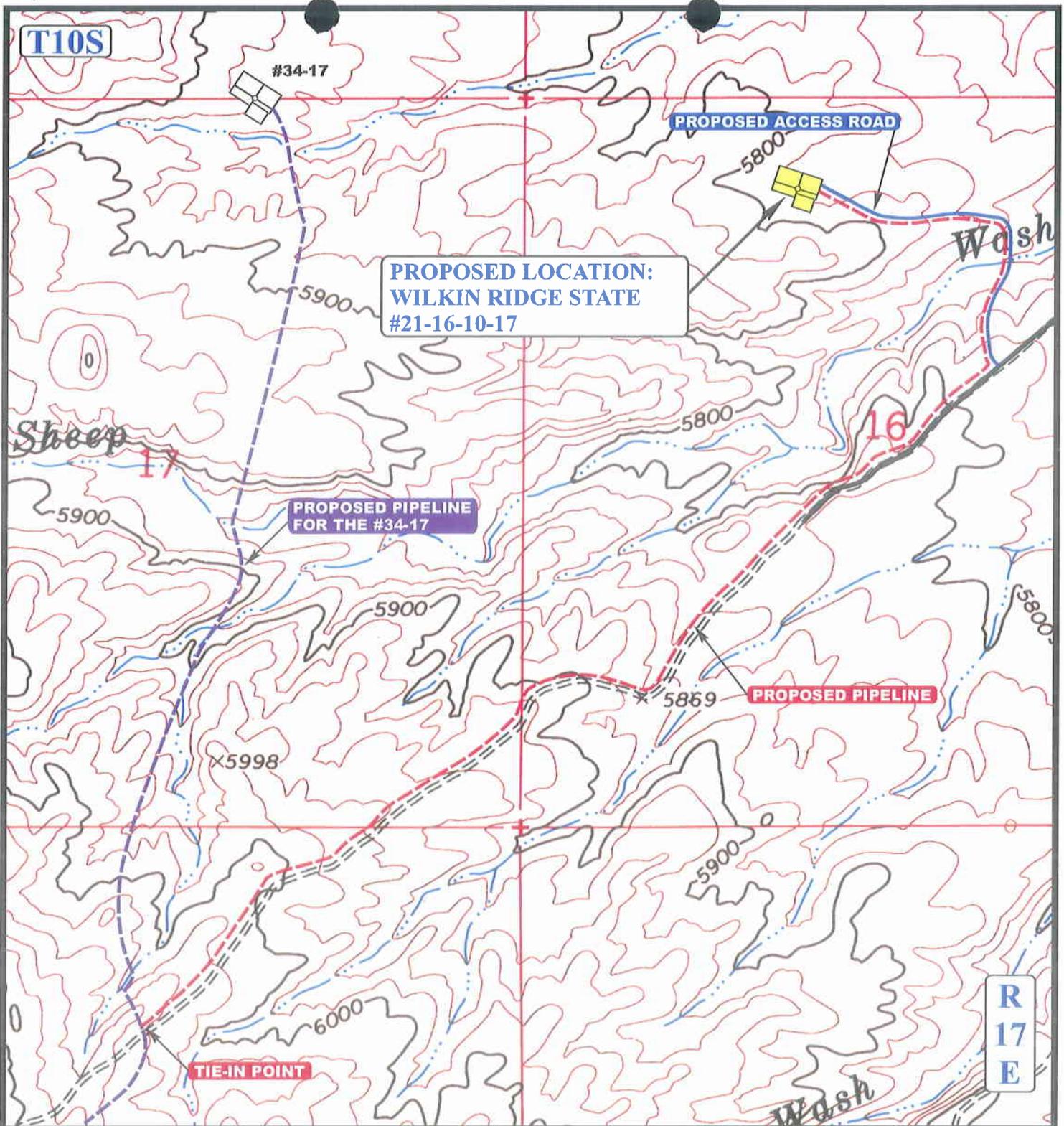
**TOPOGRAPHIC  
MAP**

**11 08 06**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K.

REVISED: 00-00-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 5,140' +/-**

**LEGEND:**

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



**GASCO ENERGY, INC.**

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SECTION 16, T10S, R17E, S.L.B.&M.  
659' FNL 1970' FWL**



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

**TOPOGRAPHIC  
MAP**

**11 08 06**  
MONTH DAY YEAR

SCALE: 1" = 1000'

DRAWN BY: L.K.

REVISED: 00-00-00



# GASCO PRODUCTION COMPANY

## LOCATION LAYOUT FOR

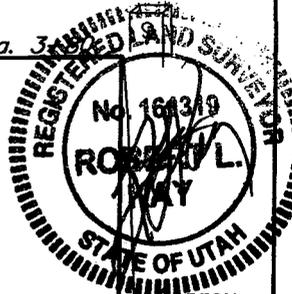
WILKIN RIDGE STATE #21-16-10-17

SECTION 16, T10S, R17E, S.L.B.&M.

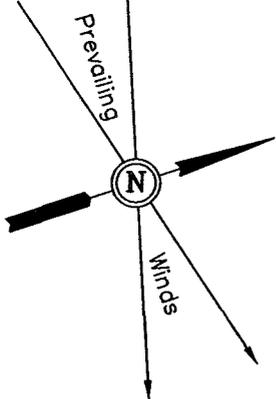
659' FNL 1970' FWL

F-0.4'  
El. 791.1'

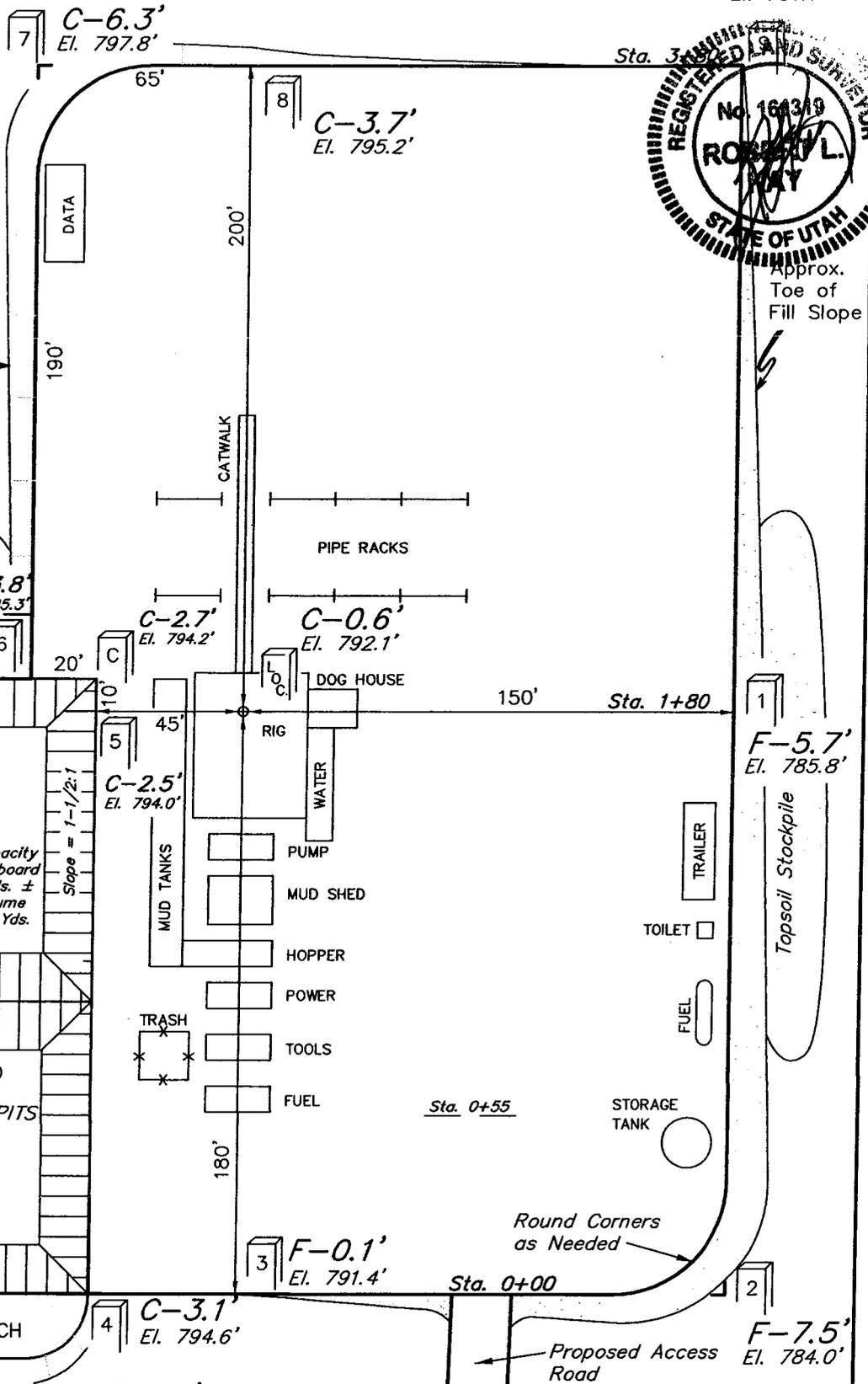
Sta. J



Approx.  
Toe of  
Fill Slope



SCALE: 1" = 50'  
DATE: 11-10-06  
Drawn By: S.L.



Approx.  
Top of  
Cut Slope

FLARE PIT  
C-3.8'  
El. 795.3'

El. 797.3'  
C-15.8'  
(btm. pit)

Total Pit Capacity  
W/2' of Freeboard  
= 13,400 Bbls. ±  
Total Pit Volume  
= 3,710 Cu. Yds.

RESERVE PITS  
(10' Deep)

Reserve Pit Backfill  
& Spoils Stockpile

Topsail Stockpile

Round Corners  
as Needed

Proposed Access  
Road

Elev. Ungraded Ground at Location Stake = 5792.1'  
Elev. Graded Ground at Location Stake = 5791.5'

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

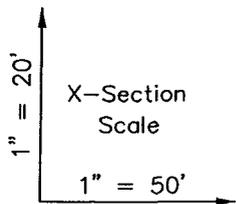
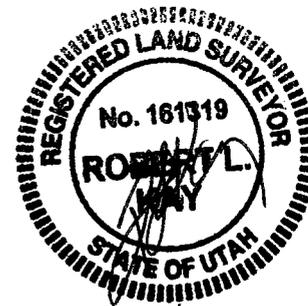
# GASCO PRODUCTION COMPANY

## TYPICAL CROSS SECTIONS FOR

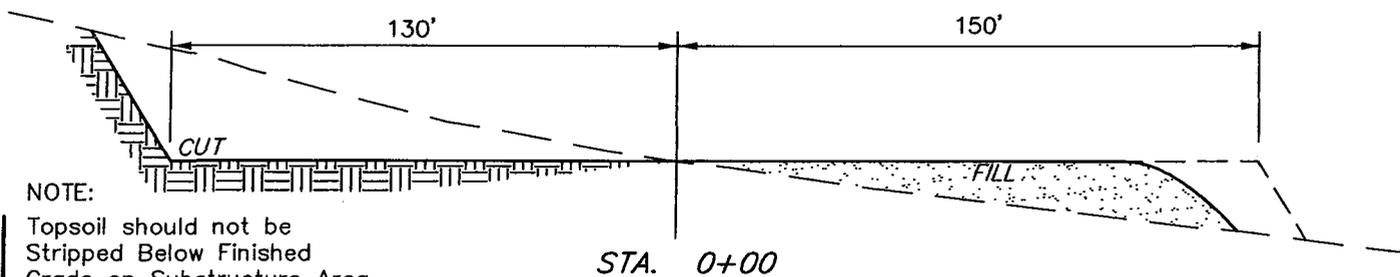
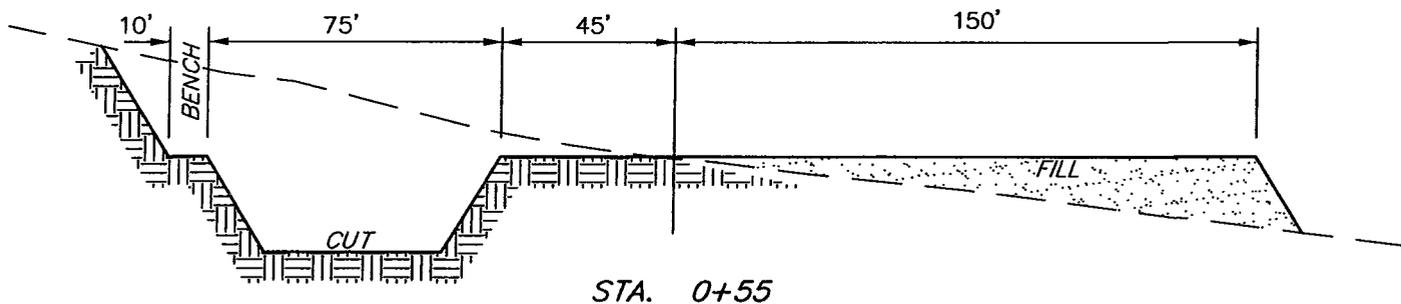
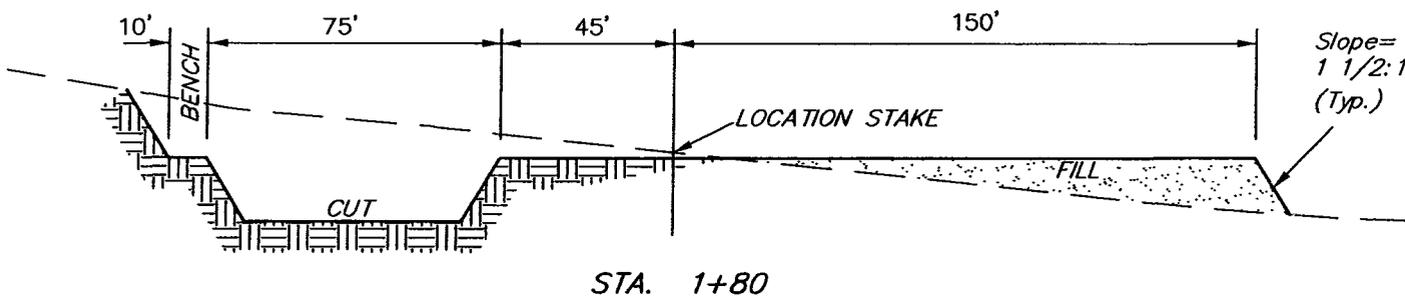
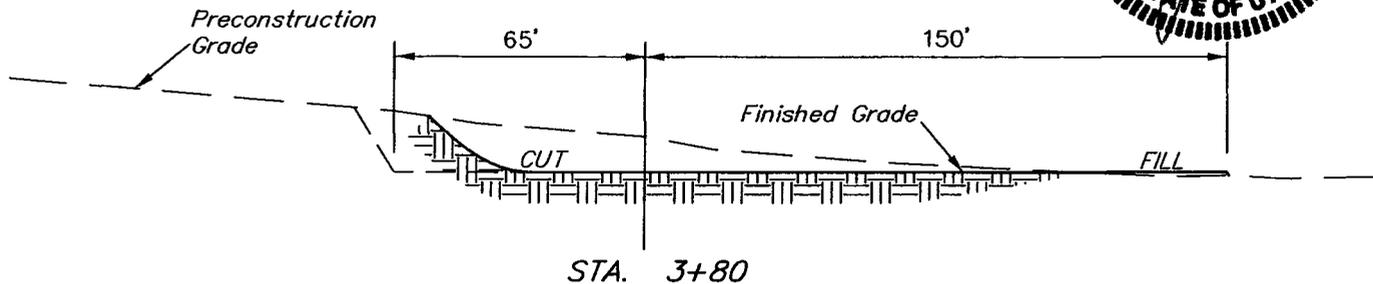
WILKIN RIDGE STATE #21-16-10-17

SECTION 16, T10S, R17E, S.L.B.&M.

659' FNL 1970' FWL



DATE: 11-10-06  
Drawn By: S.L.



**NOTE:**

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

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

CUT		
(6") Topsoil Stripping	=	2,070 Cu. Yds.
Remaining Location	=	10,160 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>12,230 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>6,420 CU.YDS.</b>

EXCESS MATERIAL	=	5,810 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,930 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	1,880 Cu. Yds.

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/22/2006

API NO. ASSIGNED: 43-047-38883

WELL NAME: WILKIN RIDGE ST 21-16-10-17  
 OPERATOR: GASCO PRODUCTION ( N2575 )  
 CONTACT: VENESSA LANGMACHER

PHONE NUMBER: 303-857-9999

PROPOSED LOCATION:

NENW 16 100S 170E  
 SURFACE: 0659 FNL 1970 FWL  
 BOTTOM: 0659 FNL 1970 FWL  
 COUNTY: UINTAH  
 LATITUDE: 39.94938 LONGITUDE: -110.0132  
 UTM SURF EASTINGS: 584302 NORTHINGS: 4422395  
 FIELD NAME: UNDESIGNATED ( 2 )

INSPECT LOCATN BY: / /		
<b>Tech Review</b>	<b>Initials</b>	<b>Date</b>
Engineering	DKD	1/8/07
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-48928  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: BLKHK  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 04127763 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-1721 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- 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:

Needs Post (12-14-06)

STIPULATIONS:

1- Spacing Slip  
2- STATEMENT OF BASIS

T10S R17E

WILKIN RIDGE  
ST 21-16-10-17

MILE FLAT FIELD

WILKIN RIDGE (DEEP) UNIT

16

WILKIN RIDGE  
FED 14-15-10-17

WEST RIVER  
BEND 16-17-10-17

WILKIN RIDGE  
ST 34-16-10-17

WILKIN RIDGE  
FED 11-21-10-17

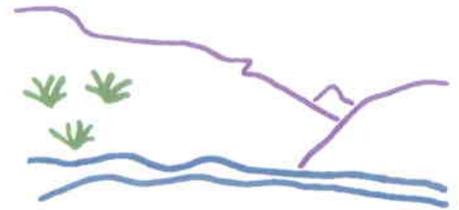
OPERATOR: GASCO PROD CO (N2575)

SEC: 16 T.10S R. 17E

FIELD: UNDESIGNATED (002)

COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON  
DATE: 29-NOVEMBER-2006

- Field Status**
- ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - PROPOSED
  - STORAGE
  - TERMINATED

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

**Wells Status**

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

# Application for Permit to Drill

## Statement of Basis

12/20/2006

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
185	43-047-38883-00-00		GW	S	No
<b>Operator</b>	GASCO PRODUCTION COMPANY		<b>Surface Owner-APD</b>		
<b>Well Name</b>	WILKIN RIDGE ST 21-16-10-17	<b>Unit</b>	WILKIN RIDGE DEEP		
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	NENW 16 10S 17E S 0 FL 0 FL GPS Coord (UTM) 584302E 4422395N				

### Geologic Statement of Basis

Gasco has proposed 200' of surface casing and 3,765' of intermediate casing at the proposed location. Both are to be cemented to surface. The base of the moderately saline water is estimated to at approximately 2,800'. A search of Division of Water Rights records shows no water wells within a 10,000' radius of the proposed location. The surface formation at this location is the Uinta Formation. The Uinta Formation is made up of discontinuous sands interbedded with shales which are not expected to be prolific aquifers. The proposed casing and cementing program should adequately protect any useable sources of ground water.

Brad Hill  
APD Evaluator

12/20/2006  
Date / Time

### Surface Statement of Basis

The location is approximately 24 miles straight-line distance southeast of Roosevelt, UT and 22.2 road miles southeast of Myton, UT. Access to the site is by State and County highways or roads and oilfield development roads. All existing roads are suitable for access. 0.5 miles of new road will be constructed to the location.

The general area is referred to as Sheep Wash. Topography is relative flat benches often broken with gently but sometimes steep draws. Sheep Wash drains into the Green River approximately 6 miles to the northeast. All drainages are ephemeral with no known springs or seeps in the immediate area.

This specific site is located in the bottom of a wide gentle swale in rolling terrain. A deeper swale exists to the northeast.

The predrill investigation of the surface was performed on December 14, 2006. Both the surface and the minerals are owned by S.I.T.L.A.. Jim Davis of S.I.T.L.A and Ben Williams of UDWR were notified and invited to participate in this presite. Both were in attendance. Shon Mckinnon represented Gasco Production Co..

Ben Williams of the Utah Division of Wildlife Resources stated the DWR classifies the area as critical yearlong range for antelope and yearlong range of limited value for deer. He did not recommend any restrictions and stated that no significant impact should occur to any wildlife species from drilling this well. Mr. Williams gave Mr. McKinnon and Mr. Davis copies of his wildlife evaluation and a DWR recommended seed mix to use for re-vegetating the site.

This appears to be the best location for drilling a well in the general area.

Floyd Bartlett  
Onsite Evaluator

12/14/2006  
Date / Time

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# Application for Permit to Drill

## Statement of Basis

Utah Division of Oil, Gas and Mining

12/20/2006

Page 2

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### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** GASCO PRODUCTION COMPANY  
**Well Name** WILKIN RIDGE ST 21-16-10-17  
**API Number** 43-047-38883-0      **APD No** 185      **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 NENW      **Sec** 16      **Tw** 10S      **Rng** 17E      0 FL 0 FL  
**GPS Coord (UTM)** 584298      4422399      **Surface Owner**

### Participants

Floyd Bartlett (DOGM), Shon Mckinnon (GASCO), Ben Williams (UDWR), Jim Davis (SITLA),

### Regional/Local Setting & Topography

The location is approximately 24 miles straight-line distance southeast of Roosevelt, UT and 22.2 road miles southeast of Myton, UT. Access to the site is by State and County highways or roads and oilfield development roads. All existing roads are suitable for access. 0.5 miles of new road will be constructed to the location.

The general area is referred to as Sheep Wash. Topography is relative flat benches often broken with gently but sometimes steep draws. Sheep Wash drains into the Green River approximately 6 miles to the northeast. All drainages are ephemeral with no known springs or seeps in the immediate area.

This specific site is located in the bottom of a wide gentle swale in rolling terrain. A deeper swale exists to the northeast.

### Surface Use Plan

#### **Current Surface Use**

Grazing  
Wildlfe Habitat

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>		<b>Src Const Material</b>	<b>Surface Formation</b>
0.5	<b>Width</b> 270	<b>Length</b> 380	Onsite	UNTA

**Ancillary Facilities** N

### Waste Management Plan Adequate? Y

### Environmental Parameters

**Affected Floodplains and/or Wetland** N

#### **Flora / Fauna**

Good cover of grass consisting of blue bunch wheatgrass, Indian ricegrass, curly mesquite, cheatgrass, broom snakeweed, greasewood and budsage; Deer, elk, antelope, songbirds, chuckars, rodent, raptors, coyote, bobcats, cattle in the winter.

#### **Soil Type and Characteristics**

Deep gravely sandy loam...

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

Drainage Diverson Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y    Paleo Potential Observed? N    Cultural Survey Run? Y    Cultural Resources?

**Reserve Pit**

<b>Site-Specific Factors</b>		<b>Site Ranking</b>
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
<b>Final Score</b>		<b>15    2    Sensitivity Level</b>

**Characteristics / Requirements**

75' by 190' located within a cut area on the on the southeast side of the location. It is 10 feet deep with a 10 foot wide bench. Stability should not be a problem. A 16 mil liner is required.

**Closed Loop Mud Required? N    Liner Required? Y    Liner Thickness 16    Pit Underlayment Required? Y**

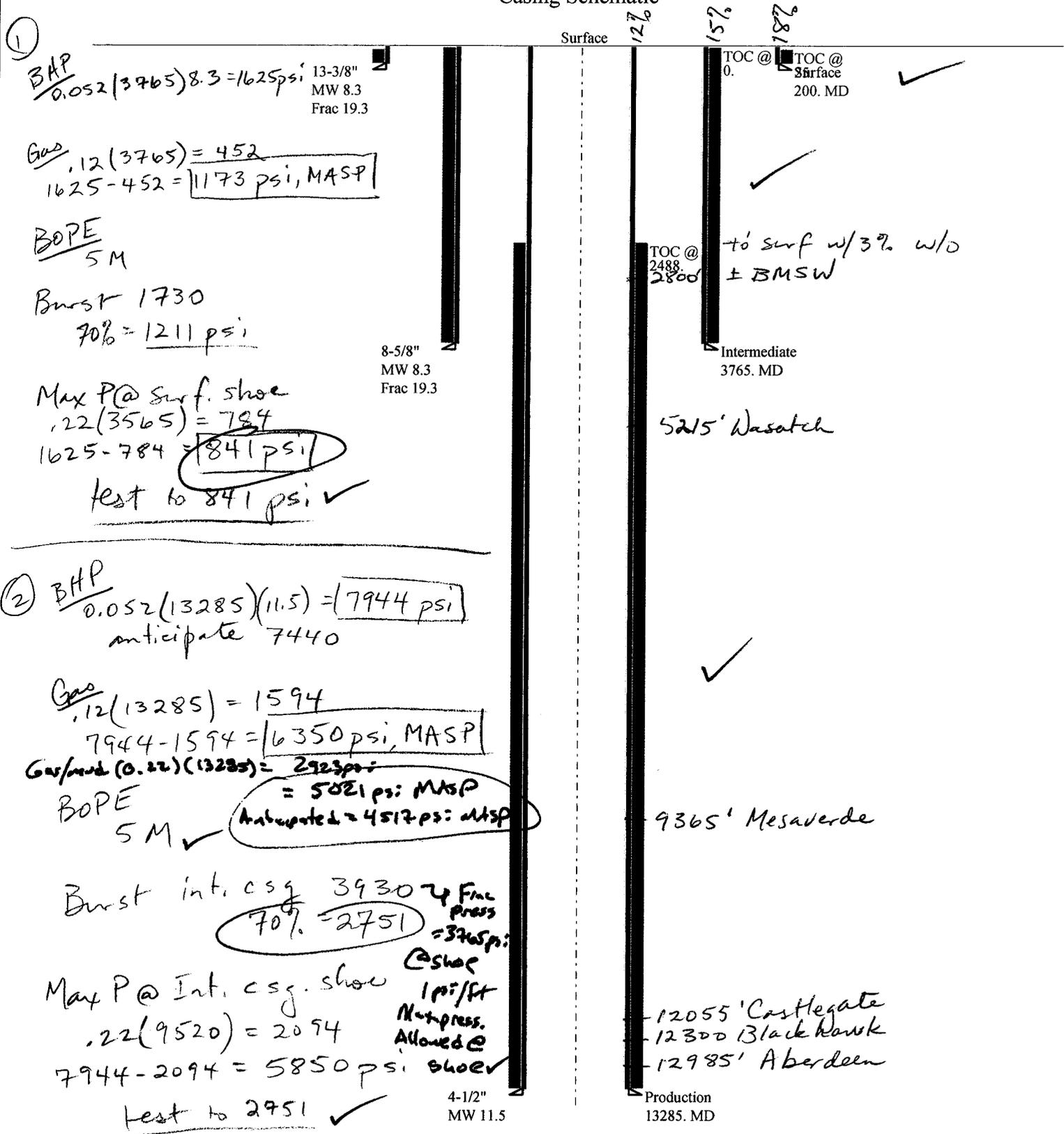
**Other Observations / Comments**

Ben Williams of the Utah Division of Wildlife Resources stated the DWR classifies the area as critical yearlong range for antelope and yearlong range of limited value for deer. He did not recommend any restrictions and stated that no significant impact should occur to any wildlife species from drilling this well. Mr. Williams gave Mr. McKinnon and Mr. Davis copies of his wildlife evaluation and a DWR recommended seed mix to use for re-vegetating the site.

Floyd Bartlett  
Evaluator

12/14/2006  
Date / Time

Casing Schematic



①  $\frac{BHP}{0.052(3765)} 8.3 = 1625 \text{ psi}$  13-3/8" MW 8.3 Frac 19.3

Gas  $.12(3765) = 452$   
 $1625 - 452 = 1173 \text{ psi, MASP}$

BOPE 5M

Burst 1730  
 $70\% = 1211 \text{ psi}$

Max P @ Surf. shoe  
 $.22(3565) = 784$   
 $1625 - 784 = 841 \text{ psi}$   
 test to 841 psi ✓

8-5/8" MW 8.3 Frac 19.3

TOC @ 0. ✓  
 TOC @ Surface 200. MD ✓

TOC @ 2488. 2800

to surf w/3% w/o ± BMSW

Intermediate 3765. MD

5215' Wasatch

②  $\frac{BHP}{0.052(13285)}(11.5) = 7944 \text{ psi}$   
 anticipate 7440

Gas  $.12(13285) = 1594$   
 $7944 - 1594 = 6350 \text{ psi, MASP}$

Gas/mud  $(0.22)(13285) = 2923 \text{ psi}$   
 $= 5021 \text{ psi: MASP}$   
 Anticipated = 4517 psi: MASP ✓

BOPE 5M ✓

Burst int. csg  $3930 \text{ } \uparrow \text{ Frac Press}$   
 $70\% = 2751 = 3765 \text{ psi}$

Max P @ Int. csg. shoe  
 $.22(9520) = 2094$   
 $7944 - 2094 = 5850 \text{ psi shoe}$   
 test to 2751 ✓

4-1/2" MW 11.5

Production 13285. MD

9365' Mesaverde

12055' Castlegate  
 12300 Blackhawk  
 12985' Aberdeen

✓ Adequate DND 1/8/07

Well name:	<b>2006-12 Gasco Wilkin Ridge ST 21-16-10-17</b>	
Operator:	<b>Gasco Production Company</b>	
String type:	Surface	Project ID: 43-047-38883
Location:	Uintah County	

**Design parameters:**

**Collapse**  
Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**  
Design factor 1.125

**Burst:**  
Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 78 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 200 ft

Cement top: 25 ft

**Burst**

Max anticipated surface pressure: 176 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 200 psi

No backup mud specified.

**Tension:**  
8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 176 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 3,765 ft  
Next mud weight: 8.330 ppg  
Next setting BHP: 1,629 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 200 ft  
Injection pressure: 200 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	200	13.375	48.00	H-40	ST&C	200	200	12.59	176.3
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	87	740	8.555	200	1730	8.65	8	322	38.22 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: 801-538-5357  
FAX: 801-359-3940

Date: December 28, 2006  
Salt Lake City, Utah

Remarks:  
Collapse is based on a vertical depth of 200 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>2006-12 Gasco Wilkin Ridge ST 21-16-10-17</b>	
Operator:	<b>Gasco Production Company</b>	
String type:	Intermediate	Project ID: 43-047-38883
Location:	Uintah County	

**Design parameters:**

**Collapse**

Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 2,937 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP: 3,765 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 3,299 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 128 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 200 ft

Cement top: Surface

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 13,285 ft  
Next mud weight: 11,500 ppg  
Next setting BHP: 7,936 psi  
Fracture mud wt: 19,250 ppg  
Fracture depth: 3,765 ft  
Injection pressure: 3,765 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3765	8.625	32.00	J-55	ST&C	3765	3765	7.875	1288.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1629	2530	1.553	3765	3930	1.04	106	372	3.52 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: 801-538-5357  
FAX: 801-359-3940

Date: December 28, 2006  
Salt Lake City, Utah

Remarks:  
Collapse is based on a vertical depth of 3765 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

**2006-12 Gasco Wilkin Ridge ST 21-16-10-17**Operator: **Gasco Production Company**

String type: Production

Project ID:

43-047-38883

Location: Uintah County

**Design parameters:****Collapse**Mud weight: 11,500 ppg  
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 261 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 2,488 ft

**Burst**Max anticipated surface  
pressure: 5,014 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 7,936 psi

No backup mud specified.

**Tension:**8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)**Non-directional string.**

Tension is based on buoyed weight.

Neutral point: 11,030 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	13285	4.5	13.50	P-110	LT&C	13285	13285	3.795	1113.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	7936	10680	1.346	7936	12410	1.56	149	338	2.27 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & MineralsPhone: 801-538-5357  
FAX: 801-359-3940Date: December 28, 2006  
Salt Lake City, Utah

## Remarks:

Collapse is based on a vertical depth of 13285 ft, a mud weight of 11.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

# 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)

November 29, 2006

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2006 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 2006 within the Wilkin Ridge Unit, Duchesne County, Utah.

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

Proposed PZ Blackhawk)

43-047-38883 Wilkin Ridge St 21-16-10-17 Sec 16 T10S R17E 0659 FNL 1970 FWL  
43-047-38882 Wilkin Ridge St 32-32-10-17 Sec 32 T10S R17E 1965 FNL 1997 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:11-29-06

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 1/18/2007 2:13 PM  
**Subject:** Well Clearance

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

EOG Resources, Inc  
Chapita Wells Unit 722-32 (API 43 047 38862)

Enduring Resources, LLC  
Long Draw 12-24-34-23 (API 43 047 38652)

Gasco Production Company  
Wilkin Ridge State 21-16-10-17 (API 43 047 38883)  
Wilkin Ridge State 32-32-10-17 (API 43 047 38882)  
Wilkin Ridge State 11-32-10-17 (API 43 047 38875)

Wind River II Corporation  
Snowshoe 4-15-16-22 (API 43 019 31510)

If you have any questions regarding this matter please give me a call.



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

January 18, 2007

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

Re: Wilkin Ridge State 21-16-10-17 Well, 659' FNL, 1970' FWL, NE NW,  
Sec. 16, T. 10 South, R. 17 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38883.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor (via e-mail)  
Bureau of Land Management, Vernal District Office  
SITLA

**Operator:** Gasco Production Company  
**Well Name & Number** Wilkin Ridge State 21-16-10-17  
**API Number:** 43-047-38883  
**Lease:** ML-48928

**Location:** NE NW                      **Sec.** 16                      **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**

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

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

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. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

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.
6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

January 18, 2007  
AMENDED

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

Re: Wilkin Ridge State 21-16-10-17 Well, 659' FNL, 1970' FWL, NE NW,  
Sec. 16, 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 43-047-38883.

Sincerely,

Gil Hunt  
Associate Director

mf  
Enclosures

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



4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
  
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.
  
6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

January 18, 2007  
\*Corrected Amendment

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

Re: Wilkin Ridge State 21-16-10-17 Well, 659' FNL, 1970' FWL, NE NW,  
Sec. 16, 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 \*43-013-33547.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
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6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-48928</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 State 21-16-10-17</b>
2. NAME OF OPERATOR: <b>Gasco Production Company</b>		9. API NUMBER: <b>4301333547</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>		10. FIELD AND POOL, OR WILDCAT: <b>Wilkin Ridge</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>659' FNL 1970' FWL</b>		COUNTY: <b>Duchesne</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NENW 16 10S 17E</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"/> 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"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Extend Permit</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 (1/18/2008)

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 12-26-07  
By: [Signature]

**RECEIVED**  
**DEC 26 2007**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Beverly Walker</u>	TITLE <u>Engineering Technician</u>
SIGNATURE <u>[Signature]</u>	DATE <u>12/20/2007</u>

(This space for State use only)



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

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

**API:** 4301333547  
**Well Name:** Wilkin Ridge State 21-16-10-17  
**Location:** NE NW of Section 16-T10S-R17E Duchesne Cnty UT  
**Company Permit Issued to:** Gasco Production Company  
**Date Original Permit Issued:** 1/18/2007

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

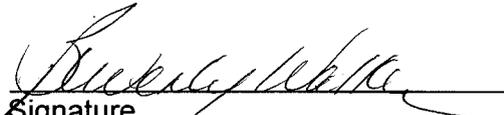
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

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

  
Signature

12/20/2007  
Date

Title: Engineering Technician

Representing: Gasco Production Company

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-48928</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>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>NA</b>
2. NAME OF OPERATOR: <b>Gasco Production Company</b>		8. WELL NAME and NUMBER: <b>Wilkin Ridge State 21-16-10-17</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>		9. API NUMBER: <b>4301333547</b>
		10. FIELD AND POOL, OR WILDCAT: <b>Wilkin Ridge</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>659' FNL 1970' FWL</b> COUNTY: <b>Duchesne</b>		
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NENW 16 10S 17E</b> STATE: <b>UTAH</b>		

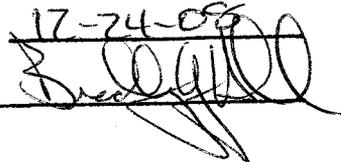
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

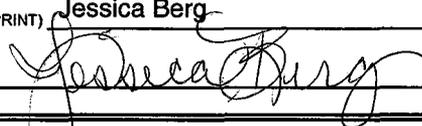
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
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	<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>Extend Permit</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 (12/26/2008)

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 12-24-08  
By: 

NAME (PLEASE PRINT) <u>Jessica Berg</u>	TITLE <u>Production Clerk</u>
SIGNATURE 	DATE <u>12/19/2008</u>

(This space for State use only)

COPY SENT TO OPERATOR  
Date: 12.30.2008  
Initials: KS

**RECEIVED**  
**DEC 23 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:** 4301333547  
**Well Name:** Wilkin Ridge State 21-16-10-17  
**Location:** NE NW of Section 16-T10S-R17E Duchesne Cnty UT  
**Company Permit Issued to:** Gasco Production Company  
**Date Original Permit Issued:** 1/18/2007

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

12/19/2008  
Date

Title: Production Clerk

Representing: Gasco Production Company

**RECEIVED**  
**DEC 23 2008**  
DIV. OF OIL, GAS & MINING



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

January 19, 2010

Gasco Production Company  
8 Inverness Dr. East, Ste. 100  
Englewood, CO 80112

Re: APD Rescinded – Wilkin Ridge St 21-16-10-17, Sec. 16 T. 10S, R. 17E  
Duchesne County, Utah API No. 43-013-33547

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on January 18, 2007. On December 26, 2007 and December 24, 2008, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 19, 2010.

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

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

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
SITLA, Ed Bonner

