

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK  
**DRILL**       **DEEPEN**       **PLUG BACK**

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
 Wintershall Oil & Gas Corp. c/o PERMITCO 303/595-4051

3. ADDRESS OF OPERATOR  
 1020-15th Street, Suite 22-E Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 2280' FSL and 1050' FEL  
 At proposed prod. zone *NE/SE*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 11.5 miles southeast of Blanding, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)      270'

16. NO. OF ACRES IN LEASE      480

17. NO. OF ACRES ASSIGNED TO THIS WELL      40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.      none

19. PROPOSED DEPTH      6500' *wh*

20. ROTARY OR CABLE TOOLS      Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)      5692' GR

22. APPROX. DATE WORK WILL START\*      November 25, 1984

5. LEASE DESIGNATION AND SERIAL NO.  
 U-37845

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 N/A

7. UNIT AGREEMENT NAME  
 N/A

8. FARM OR LEASE NAME  
 Federal

9. WELL NO.  
 #27-43

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 27, T37S - R23E

12. COUNTY OR PARISH      13. STATE  
 San Juan      Utah

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	2290'	1050 sx - circulated to surface
7-7/8"	5-1/2"	15.5#	6500'	450 sx - or sufficient to cover zones of interest.

Wintershall Oil & Gas Corp. proposes to drill a well to 6500' to test the Upper Ismay and Desert Creek formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**  
 DATE: 11/23/84  
 BY: [Signature]

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

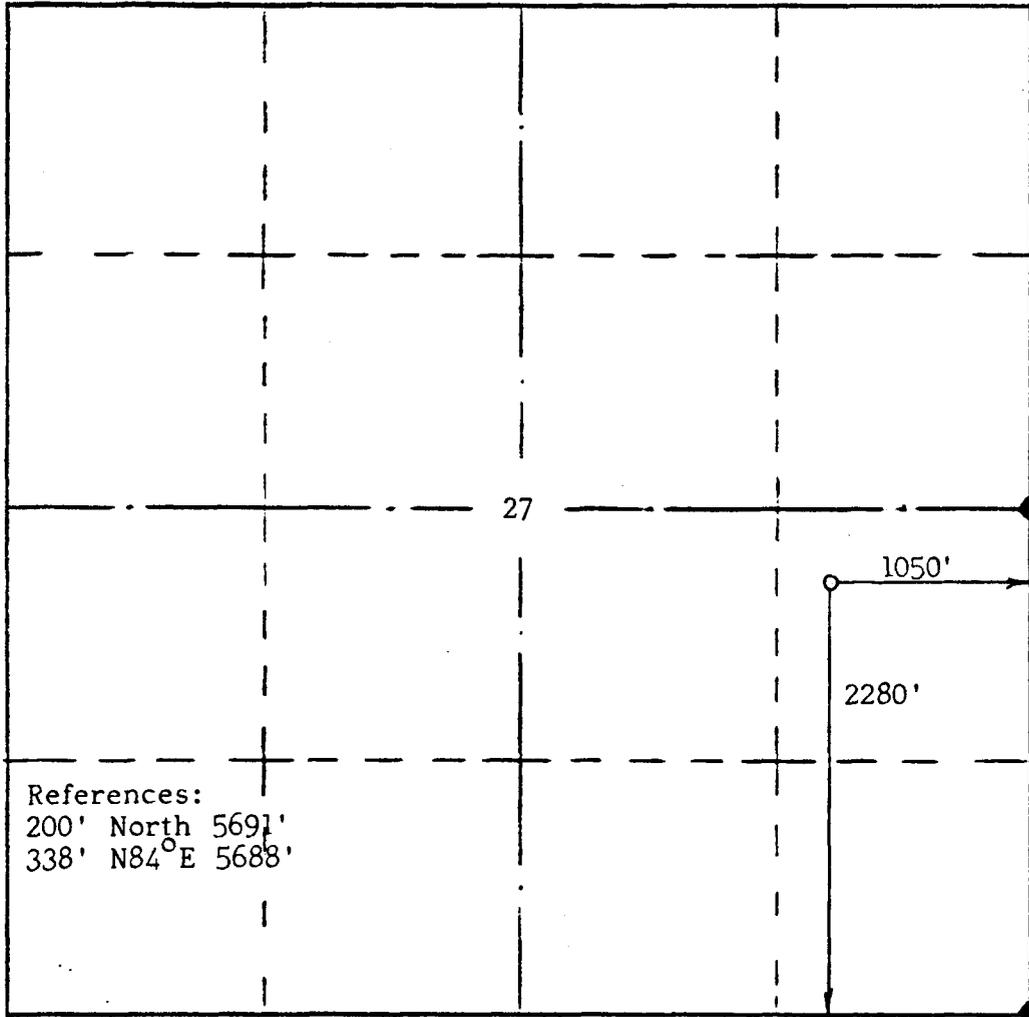
24. SIGNED [Signature] TITLE Wintershall Oil & Gas DATE 11/9/84

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

WELL LOCATION AND ACREAGE DEDICATION PLAT



References:  
 200' North 5691'  
 338' N84°E 5688'

North  
 2643'

Operator Wintershall O & G		Well name 27-43 Federal	
Section 27	Township 37South	Range 23 East	Meridian SLM
Footages 2280' FS & 1050' FE		County/State San Juan, Utah	Elevation 5692'
Formation	Dedicated Acreage	Requested by Lisa Green	
<p>The above plat is true and correct to the best of my knowledge and belief.</p> <p>October 26, 1984</p> <p style="text-align: right;">               Gerald G. Huddleston S.         </p> <div style="text-align: center;">  </div>			

ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore  
Federal and Indian Oil and Gas Leases

Federal #27-43  
2280' FSL and 1050' FEL  
Sec. 27, T37S - R23E  
San Juan County, Utah

Prepared For:

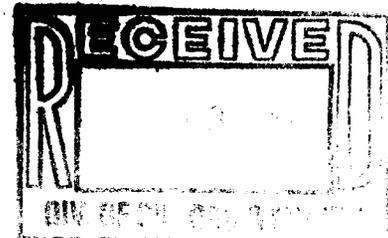
WINTERSHALL OIL & GAS CORP.

By:

PERMITCO  
1020-15th Street, Suite 22E  
Denver, Colorado 80202

Copies Sent To:

- 4 - BLM - Moab, Utah
- 1 - BLM - Monticello, Utah
- 1 - Division of Oil Gas & Mining - SLC, Utah
- 5 - Wintershall Oil & Gas Corp - Denver, CO



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A Petroleum Permitting Company

5675 DTC Boulevard, Suite 200  
Englewood, Colorado 80111 U.S.A.



**Wintershall  
Oil and Gas Corporation**  
Englewood, Colorado

Bureau of Land Management

RE: Federal #8-13  
Federal #27-43  
San Juan County, Utah

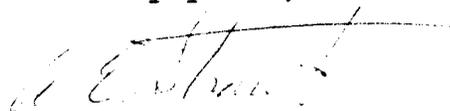
Gentlemen:

This letter is to inform you that Permitco is authorized to act as Agent and to sign documents on behalf of Wintershall Oil and Gas Corporation when necessary for filing county, state, and federal permits including Onshore Order No. 1, R-O-W applications, etc.; for the above-mentioned well.

It should be understood that Permitco is acting as Agent only in those matters stated above and is not responsible for drilling, completion, production, or compliance with regulations.

Wintershall Oil and Gas Corporation agrees to accept full responsibility for operations conducted in order to drill, complete, and produce the above-mentioned well.

Sincerely yours,



A. E. Straub  
Vice President - Production

AES:ram

# Permitco

A Petroleum Permitting Company

RECEIVED

NOV 13 1984

DIVISION OF OIL  
GAS & MINING

November 9, 1984

State of Utah  
Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Re: Wintershall Oil & Gas Corp.  
Federal #27-43  
2280' FSL and 1020' FEL  
Sec. 9, T37S - R23E  
San Juan County, Utah

Gentlemen:

Wintershall Oil & Gas Corp. proposes to drill a well at the above mentioned location.

We realize that this location is a non-standard location in accordance with the spacing rules of the State of Utah. This location was picked due to topography and extensive seismic work which was done in the immediate area.

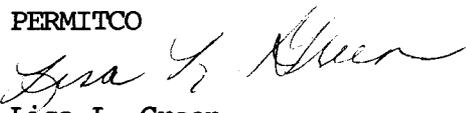
Wintershall Oil & Gas Corp. is the lease holder of the following:

T37S - R23E: Sec. 27: N/2, SE/4

Therefore, no other lease holders will be affected by the drilling of the above proposed well. We, therefore, request your permission to drill this well at a non-standard location.

Sincerely,

PERMITCO

  
Lisa L. Green  
Consultant for  
Wintershall Oil and Gas Corp.

cc: Wintershall Oil & Gas Corp.

ONSHORE ORDER NO.  
Wintershall Oil & Gas Corp.  
Federal 27-43  
2280' FSL and 1050' FEL  
Sec. 27, T37S - R23E  
San Juan County, Utah

DRILLING PROGRAM

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

1. The surface formation and estimated formation tops to be encountered are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Dakota	Surface	
Entrada	970'	+4736'
Navajo	1240'	+4466'
Chinle	2240'	+3466'
Cutler/DeChelly	3130'	+2576'
Honaker Trail	4920'	+ 786'
Upper Ismay	6000'	- 294'
Lower Ismay	6140'	- 434'
Desert Creek	6240'	- 534'
Akah	6345'	- 639'
T.D.	6500'	- 794'

2. The estimated depths at which oil, gas, water or other mineral bearing zones are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Anticipated Depth</u>
Oil/Gas	Upper Ismay	6000'
Oil/Gas	Desert Creek	6240'

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

3. Pressure control equipment will consist of a 10", 3000# BOP. (See BOP Diagram attached.)

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ONSHORE ORDER NO.  
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Sec. 27, T37S - R23E  
San Juan County, Utah

DRILLING PROGRAM

Pressure tests will be conducted before drilling out from under all casing strings which are 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 recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

4. a. Casing

The proposed casing program is as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Wt.</u>	<u>Grade</u>	<u>Type</u>	<u>New or Used</u>
Surface	0-2290'	12-1/4"	9-5/8"	36#	J-55	ST&C	New
Produc.	0-6500'	7-7/8"	5-1/2"	15.5#	J-55	ST&C	New

b. Cement

The cementing program will be as follows:

<u>Surface</u>	<u>Type and Amount</u>
0-2290'	850 sx Lite, Tail in with 200 sx Class B (neat). Cement will be circulated to surface.
<u>Production</u>	<u>Type and Amount</u>
T.D. - 4800'	250 sx low water loss Class "B" Cement
2680-3180'	200 sx low water loss Class "B" Cement

c. Auxiliary Equipment will be as follows:

1. Kelly cock.
2. Float above the bit.

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San Juan County, Utah

DRILLING PROGRAM

c. Auxillary Equipment (cont.)

3. A sub with a full opening valve will be on the floor when the kelly is not in use.
4. Monitoring of the system will be done visually.

5. Drilling fluid will be as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>PH</u>
0-1650'	Gel Water	8.7-8.8	30	N/C	N/C
1650-5000'	Gel Chemical	9.0-9.5	40	10	10+
5000-T.D.	Gel Chemical	10-14	40-45	8-10	10+

6. Coring, logging and testing programs are as follows:

- a. One 60' core will be run in the Upper Ismay.
- b. The logging program will consist of a DIL SFL, GR SP; BHC Sonic GR Caliper from Surface to T.D. and a CHL Litho Density GR Caliper and Dipmeter and Velocity Survey from 4000' to T.D.
- c. A drill stem test will be run in the Upper Ismay and possibly in the Desert Creek at drilling breaks or shows.

Whether the well is completed as a dry hole or as a producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 15 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 analysis, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager.

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ONSHORE ORDER NO.  
Wintershall Oil & Gas Corp.  
Federal 27-43  
2280' FSL and 1050' FEL  
Sec. 27, T37S - R23E  
San Juan County, Utah

DRILLING PROGRAM

7. Abnormal conditions, bottom hole pressures and potential hazards.
  - a. The maximum bottom hole pressure to be expected is 3500 psi.
  - b. Wintershall Oil & Gas Corp. plans to spud the Federal #27-43 on November 30, 1984 and intends to complete the well within approximately one month after the well has reached T.D.
  - c. The operator will contact the San Juan Resource Area at 801/587-2201, 48 hours prior to beginning any dirt work on this location.
  - d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.
  - e. The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours of spudding, reporting the spud date and time. The Sundry will be sent to the District Manager.
  - f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the Moab BLM District Office, P. O. Box 970, Moab, Utah 84532.
  - g. 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 District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig.

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DRILLING PROGRAM

- h. If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, no later than the first business day following the date on which the well is placed on production.
- i. No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Manager. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, 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.
- j. Final abandonment will not be approved until surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager or his representative, or the appropriate Surface Managing Agency.
- k. A first production conference will be scheduled within 15 days after receipt of the first production notice. The operator will schedule the conference with the San Juan Area Manager.

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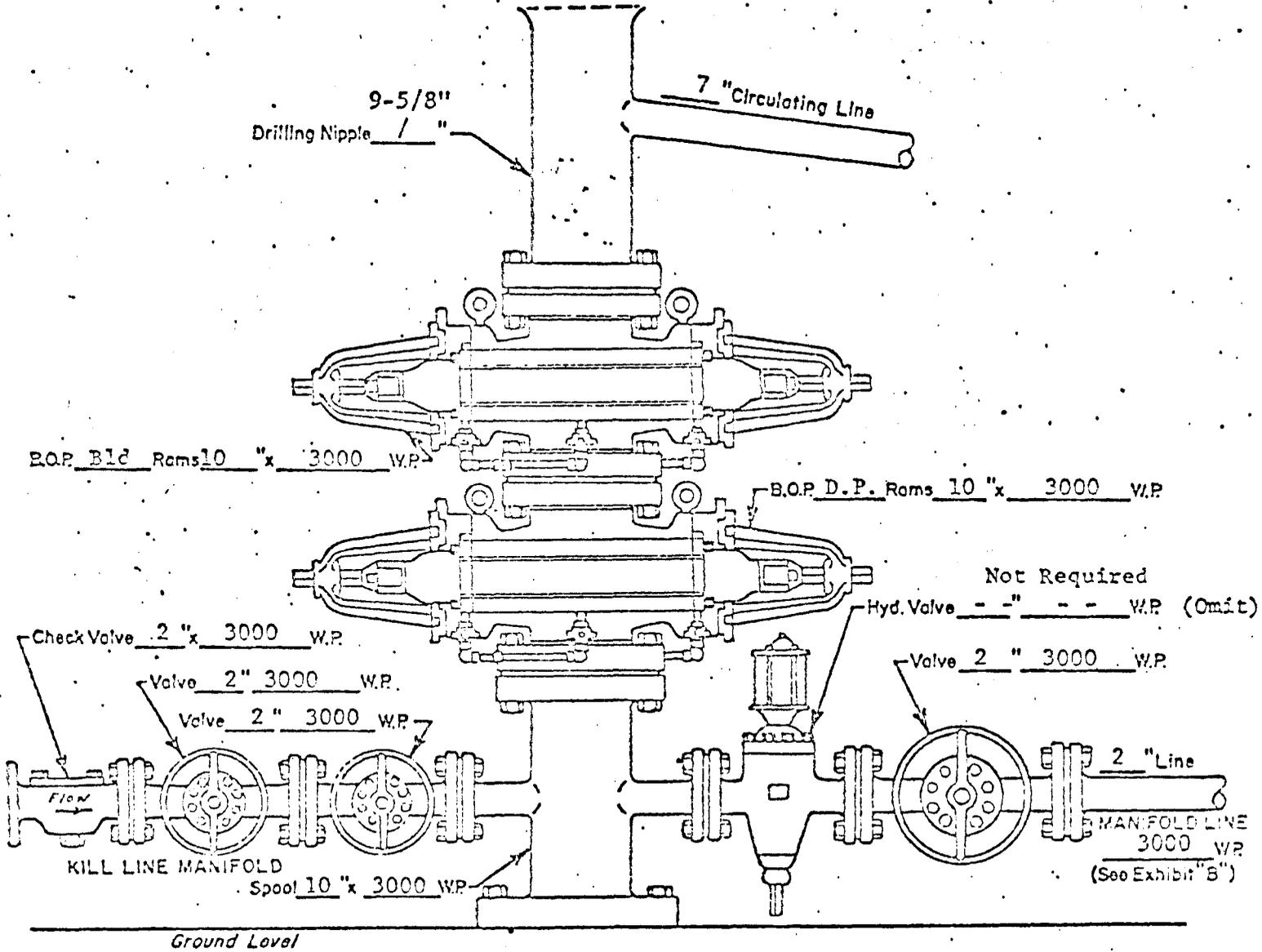
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A Petroleum Permitting Company

COLEMAN DRILLING CO.

WELL NAME: \_\_\_\_\_

LOCATION : \_\_\_\_\_



WELL HEAD B.O.P.

3000 W.P.

Hydraulic

ONSHORE OIL & GAS ORDER NO. 1  
Wintershall Oil & Gas Corp.  
Federal 27-43  
2280' FSL and 1050' FEL  
Sec. 27, T37S - R23E  
San Juan County, Utah

SURFACE USE PLAN

ONSHORE OIL & GAS ORDER NO. 1

Thirteen Point Surface Use Plan

1. Existing Roads

- a. The proposed well site is located 11.5 miles from Blanding, Utah.
- b. Directions to the location from Blanding are as follows:  
Go south on Highway 47 for 1.5 miles. Turn east onto the County Road and proceed 1.3 miles. Turn south on the County Road (Perkins #206) and proceed southwesterly for 9.6 miles. Turn left (east) and follow existing seismic trail and flagged access for 3/10 mile to the location.
- c. For location of access roads within a 2-Mile radius, see Map #1.
- d. Improvement to the existing access will not be necessary and will be limited to the total existing disturbed width.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. An encroachment permit will be obtained from the San Juan County Road Department, 801/587-2231, ext. 43.

2. Planned Access Roads

- a. The road will initially be flatbladed during drilling operations and will be 20-22 feet wide. The maximum total disturbed width will be 30 feet.
- b. The maximum grade will be 6%.
- c. No turnouts are planned.
- d. The access road was centerline flagged at the time of staking.

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San Juan County, Utah

SURFACE USE PLAN

2. Planned Access Roads (cont.)

- e. Drainage will be installed as deemed necessary by the dirt contractor.
- f. No gates, cattleguards or fence cuts will be necessary.
- g. 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.
- h. The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drilling rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.
- i. One 24" and one 18" culvert will be necessary. See Map #1.
- l. Surfacing material will not be placed on the access road or location without prior BLM approval.

3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location. (See Map #2).

- a. Water Wells - none
- b. Injection or disposal wells - none
- c. Producing Wells - two
- d. Drilling Wells - none

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SURFACE USE PLAN

4. Location of Tank Batteries and Production Facilities.

- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. 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. The color will be neutral to blend in with the environment.
- b. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.
- c. Tank batteries will be placed as shown on Diagram #1.
- d. All loading lines will be placed inside the berm surrounding the tank battery.
- e. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.
- f. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- g. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
- h. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.
- i. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

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SURFACE USE PLAN

4. Location of Tank Batteries and Production Facilities (cont.)

- j. 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 San Juan Area Manager 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 Moab District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from Fred Halliday which is located in the SW/4 SE/4 Sec. 22, T37S - R22E or from Clyde Watkins in the C S/2 Sec. 1, T37S - R22E. Directions to the water sources are shown on Map #1.
- b. Water will be trucked to location over the roads marked on Map #1.
- c. No water well is to be drilled on this lease.
- d. Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer, 801/637-1303, and by receiving permission from the land owner of surface management agency to use the land containing the water source.

6. Source of Construction Material

- a. Road surfacing and pad construction material will be obtained from a commercial source.
- b. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2.3. Construction material will not be located on lease.

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SURFACE USE PLAN

7. Methods of Handling Waste Disposal

- a. The reserve pit will be lined with commercial bentonite sufficient to prevent seepage at the discretion of the dirt contractor. At least half of the capacity will be in cut.
- b. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.
- c. A trash pit will be constructed near the mud tanks and dug at least six feet into solid, undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free.
- d. A burning permit is required for burning trash between May 1 and October 31. A burn permit will be requested if drilling is to occur during these dates.
- e. Produced waste water will be confined to a unlined pit for a period not to exceed 90 days after initial production. During the 90-day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order.

8. Ancillary Facilities

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

9. Well Site Layout

- a. See Diagram #2 for rig layout. See Diagram #3 for cross section of drill pad. See Diagram #4 for cuts and fills.

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SURFACE USE PLAN

9. Well Site Layout (cont.)

- b. The location of mud tanks; reserve, burn and trash pits; pipe racks; living facilities and soil stockpiles will be shown on Diagrams #2 & #4. The location will be laid out and constructed as discussed during the predrill conference.
- c. The top 12 inches of soil material will be removed from the location and stockpiled separate from the trees on the west side. Topsoil along the access will be reserved in place.
- d. Access to the well pad will be from the north.

10. Plans for Reclamation of Surface

- a. Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator or his contractor will contact the San Juan Resource Area office in Monticello, Utah (801/587-2201) 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.

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SURFACE USE PLAN

10. Plans for Reclamation of Surface (cont.)

f. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 Feet
2-4%	Every 100 Feet
4-5%	Every 75 Feet
5+%	Every 50 Feet

g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

2 lbs/acre Indian Ricegrass (*Oryzopsis Hymehoides*)  
2 lbs/acre Western Wheatgrass (*Agropyron Smithii*)  
2 lbs/acre Fourwing saltbush (*Atriplex canenscens*)  
1 lbs/acre Wild sunflower (*Helianthus annuus*)

h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.

i. The reserve pit and that portion of the location and access road not needed for production and production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11. a. Surface Ownership

Federal

b. Mineral Ownership

Federal

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San Juan County, Utah

SURFACE USE PLAN

12. Other Information

- a. There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.
- b. "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 3164.
- c. The dirt contractor will be provided with an approved copy of the surface use plan.
- d. If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archeological sites will be done by a BLM approved archeologist only if damage occurs.
- e. This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.
- f. An archeological study was performed by LaPlata Archaeological Consultants. No significant cultural resources were found and clearance is recommended. A copy of the archaeological report is attached.
- g. A Right-of-Way Grant will be necessary on approximately 1/8 mile existing access which is located in the NE SW Sec. 27, T37S - R23E. Enclosed is a check in the amount of \$70.00 to cover filing fees for this Right-of-Way.
- h. Your contact with the District Office is:  
Bob Graff  
P.O. Box 970  
Moab, Utah 84532  
(801/259-6111)

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**Permitco**

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A Petroleum Permitting Company

ONSHORE OIL & GAS ORDER NO. 1  
Wintershall Oil & Gas Corp.  
Federal 27-43  
2280' FSL and 1050' FEL  
Sec. 27, T37S - R23E  
San Juan County, Utah

SURFACE USE PLAN

12. Other Information (cont.)

- i. Resource Area Manager's address and contacts:  
Rich McClure  
P.O. Box 7  
Monticello, UT 84535  
(801/587-2201)

13. Lessee's or Operator's Representative and Certification

Permit Matters

Permitco  
Lisa L. Green  
1020-15th Street  
Suite 22-E  
Denver, Co. 80202  
303/595-4051

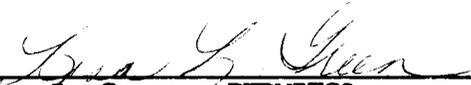
Drilling & Completion Matters

Wintershall Oil & Gas Corp.  
David Howell  
5675 DIC Blvd.  
Suite 200  
Englewood, CO 80111  
303/694-0988 (W)  
303/423-1025 (H)

Certification

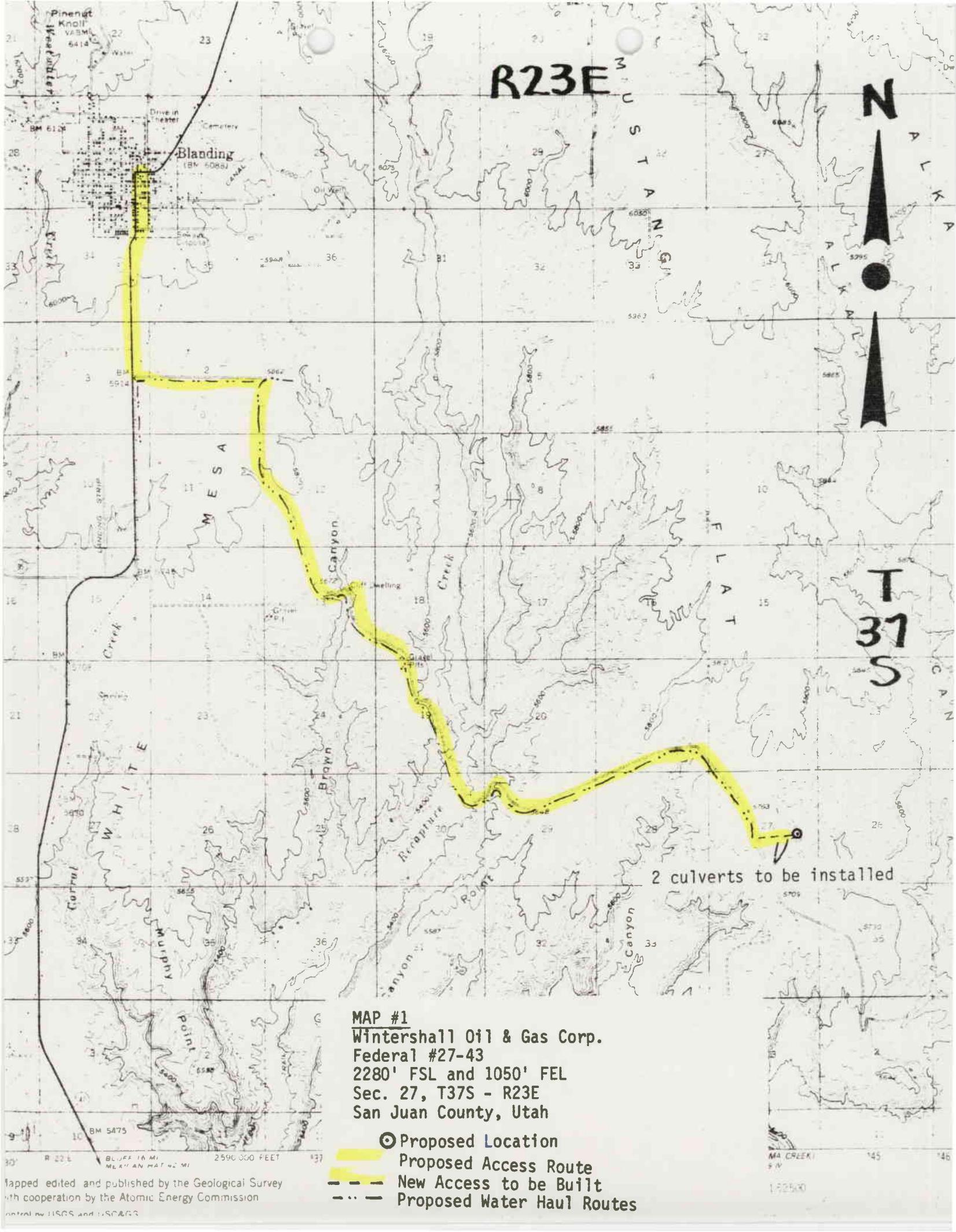
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Wintershall Oil & Gas Corp. and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

November 9, 1984  
Date:

  
\_\_\_\_\_  
Lisa L. Green - PERMITCO  
Authorized Agent for:  
WINTERSHALL OIL & GAS CORP.

**Permitco**

A Petroleum Permitting Company



R23E

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Blanding  
(BM 5083)

M  
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37  
S

2 culverts to be installed

MAP #1  
Wintershall Oil & Gas Corp.  
Federal #27-43  
2280' FSL and 1050' FEL  
Sec. 27, T37S - R23E  
San Juan County, Utah

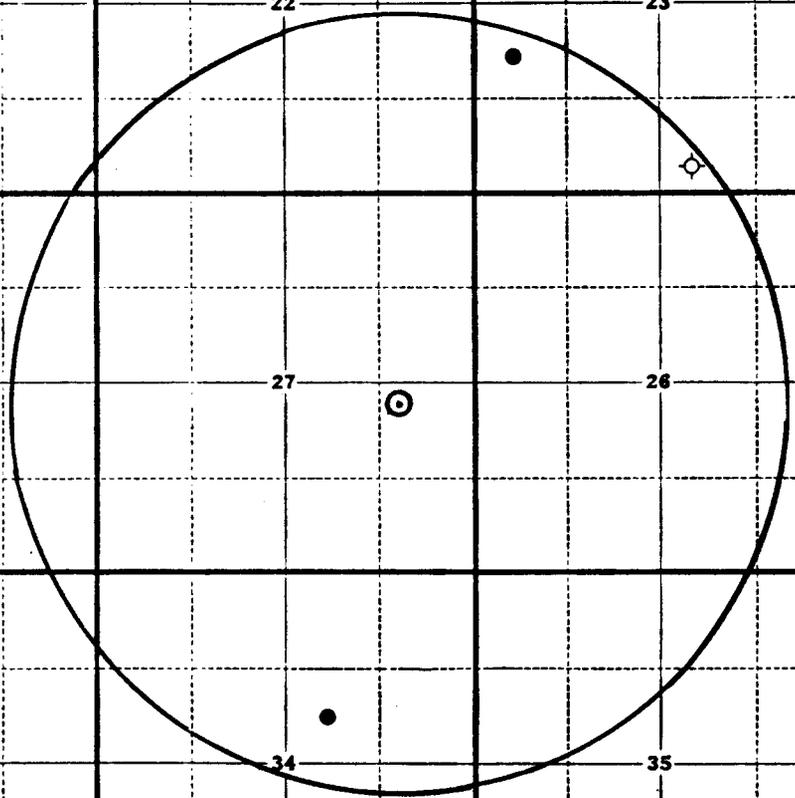
- ⊗ Proposed Location
- Proposed Access Route
- - - New Access to be Built
- · - Proposed Water Haul Routes

R23E

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MAP #2

Wintershall Oil & Gas Corp.  
Federal #27-43  
2280' FSL and 1050' FEL  
Sec. 27, T37S - R23E  
San Juan County, Utah

- ⊙ Proposed Location
- Producing Well
- ◇ Abandoned Well

Scale: 1" = 50'

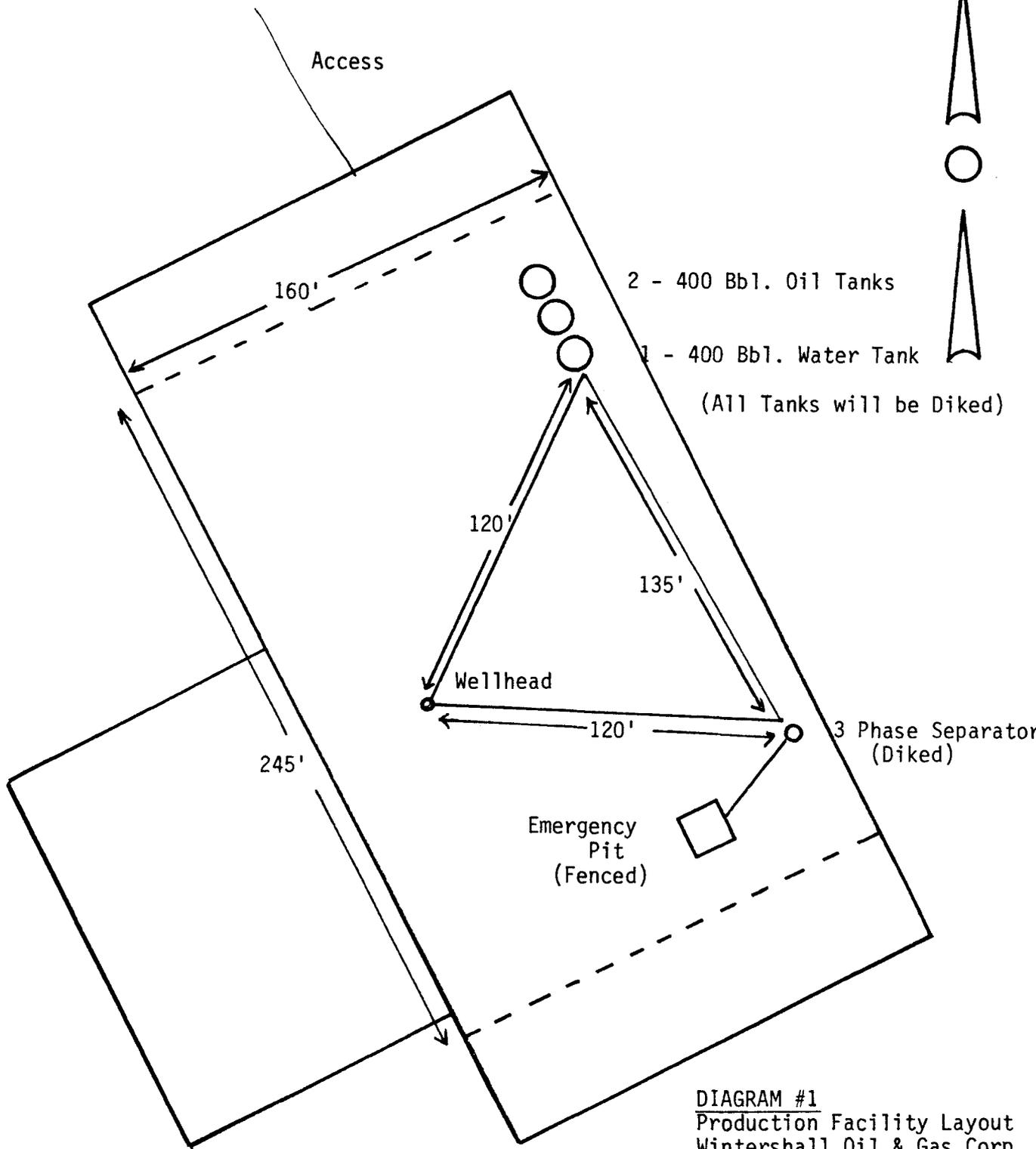


DIAGRAM #1  
Production Facility Layout  
Wintershall Oil & Gas Corp.  
Federal #27-43  
2280' FSL and 1050' FEL  
Sec. 27, T37S - R23E  
San Juan County, Utah

Scale: 1" = 50'

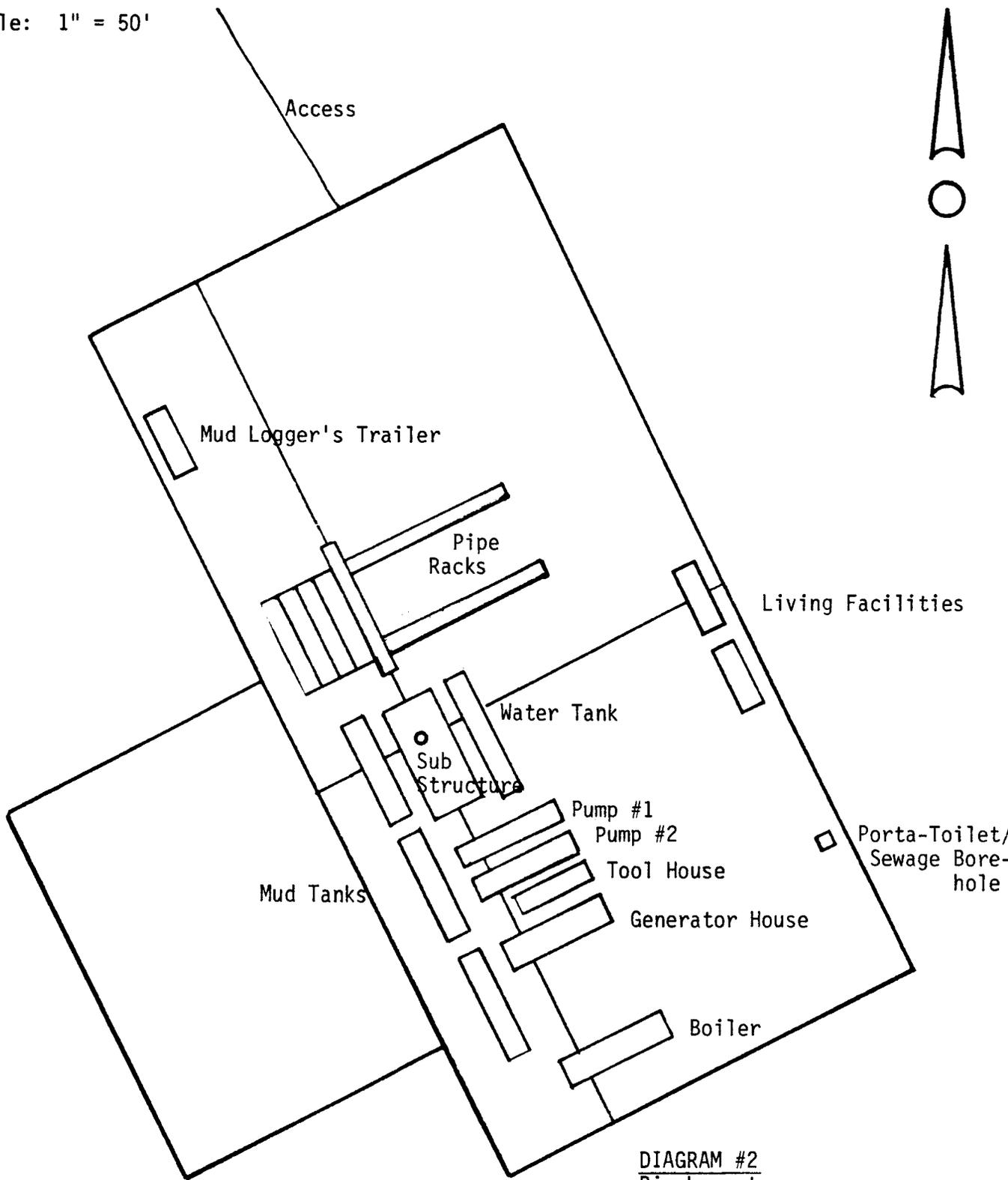


DIAGRAM #2  
Rig Layout  
Wintershall Oil & Gas Corp.  
Federal #27-43  
2280' FSL and 1050' FEL  
Sec. 27, T37S - R23E  
San Juan County, Utah

DIAGRAM #3  
Wintershall Oil & Gas Corp.  
Federal #27-43  
2280' FSL and 1050' FEL  
Sec. 27, T37S - R23E  
San Juan County, Utah

WELL PAD CROSS-SECTION

Well \_\_\_\_\_

Cut /////  
Fill

Scales: 1"=50' H.  
1"=30' V.

1.7 Vertical Exaggeration

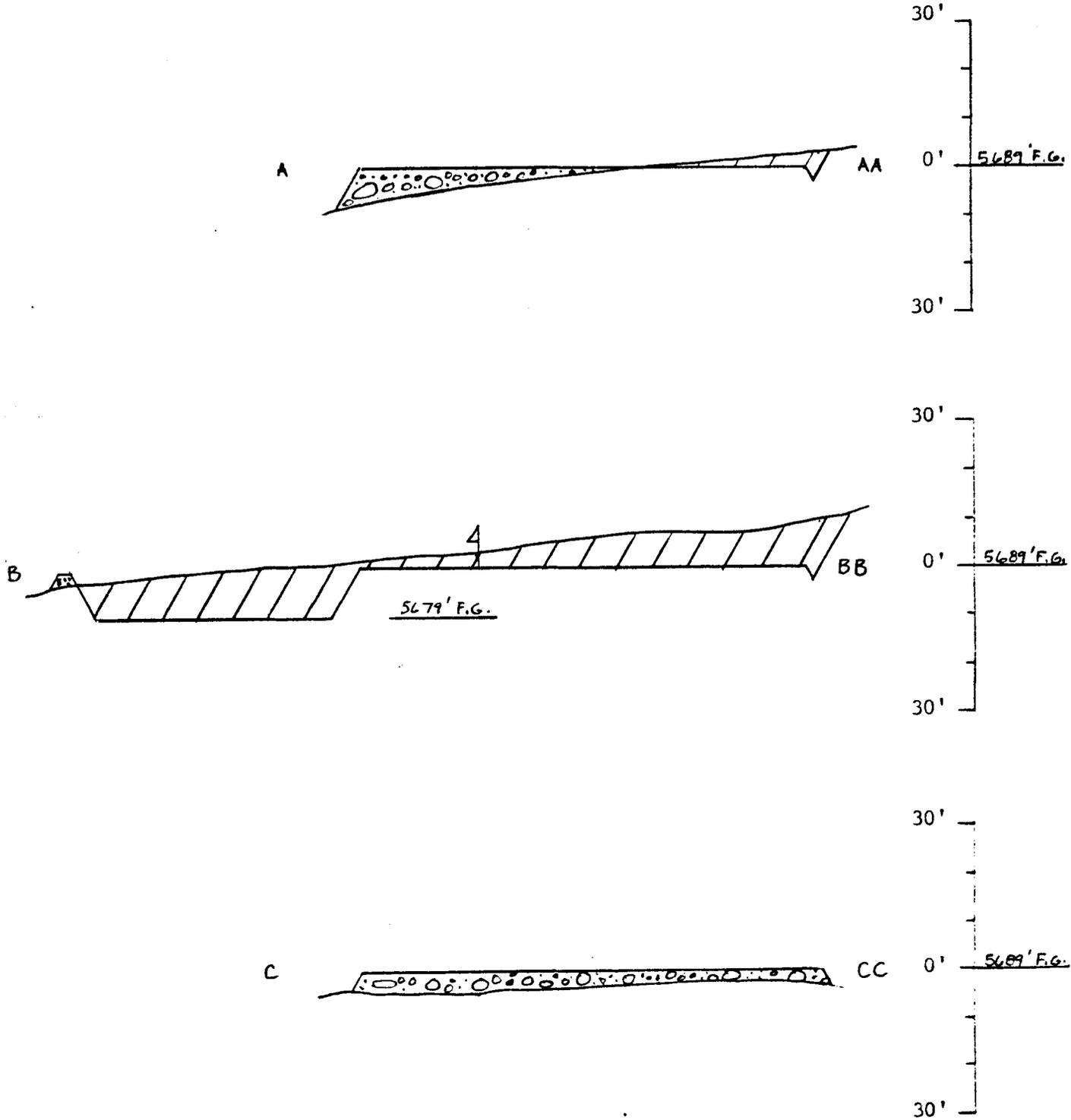
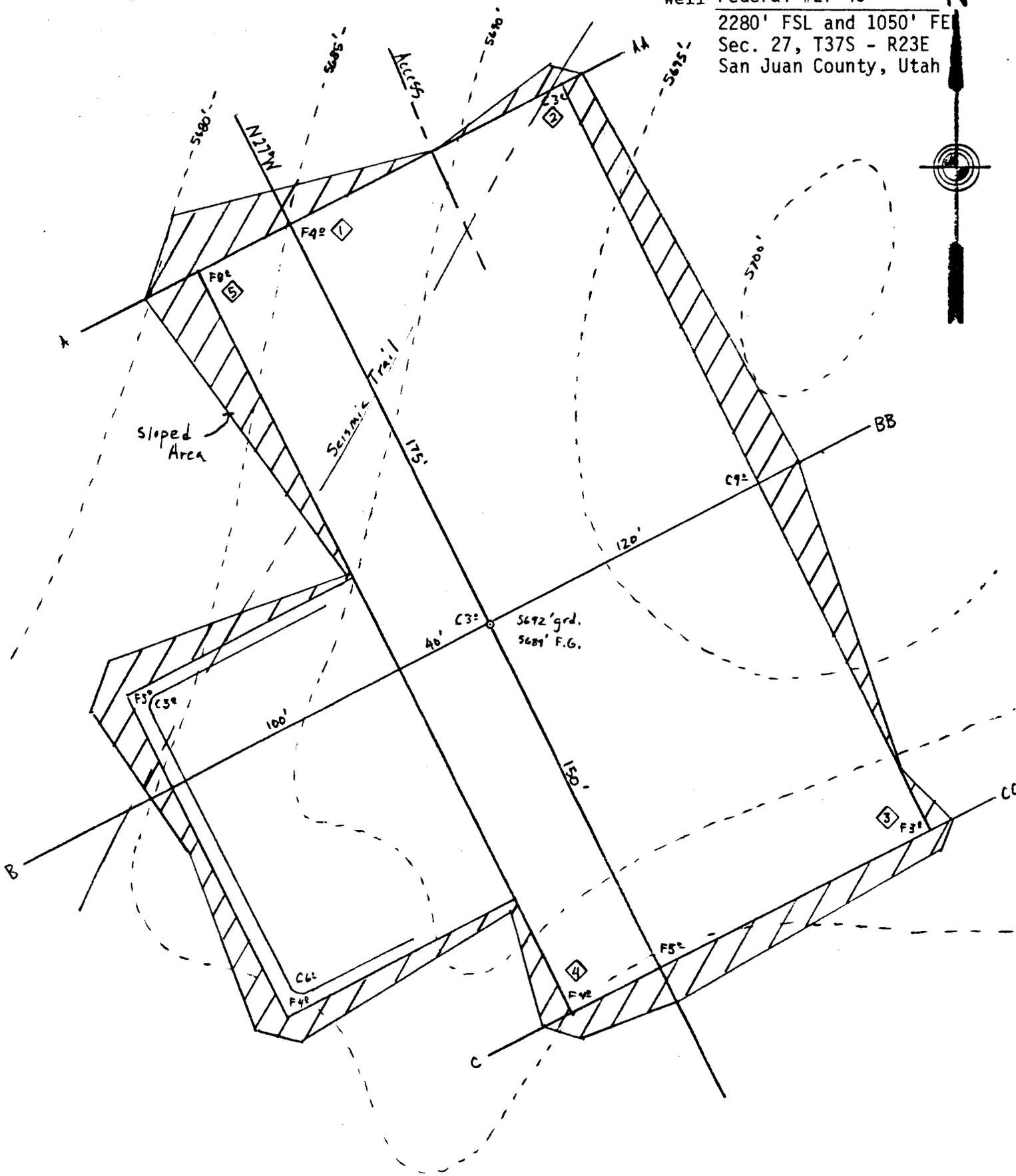


DIAGRAM #4  
Cut and fill Diagram

Wintershall Oil & Gas Corp.  
Well Federal #27-43  
2280' FSL and 1050' FE  
Sec. 27, T37S - R23E  
San Juan County, Utah

WELL PAD PLAN VIEW



AN ARCHEOLOGICAL SURVEY OF  
WINTERSHALL OIL AND GAS CORP.'S  
FEDERAL 8-13 WELL SITE AND ACCESS ROAD  
SAN JUAN COUNTY, UTAH

LAC REPORT 84107

by  
Barry N. Hibbets

LA PLATA ARCHEOLOGICAL CONSULTANTS, INC.  
P.O. BOX 783  
DOLORES, COLORADO 81323  
(303) 882-4933

NOVEMBER 5, 1984

Federal Antiquities Permit  
84-UT-54625

Prepared For:  
Wintershall Oil & Gas Corp.  
5675 DTC Boulevard  
Suite 200  
Englewood, Colorado 80111

## ABSTRACT

In November, 1984 an archeological survey of Wintershall Oil and Gas Corp.'s Federal No. 8-13 well site and two alternative access routes amounting to some 1200' of access road was conducted by personnel of La Plata Archeological Consultants, Inc. The project area is located above the western rim of Westwater Canyon on land administered by the Bureau of Land Management - San Juan Resource Area. No significant cultural resources were discovered during the investigation and archeological clearance is recommended.

## INTRODUCTION

On November 2, 1984 an archeological survey of Wintershall Oil and Gas Corp.'s Federal No. 8-13 well site and approximately 1200' of proposed access road was conducted by personnel of La Plata Archeological Consultants, Inc. The survey was requested by Ms. Lisa Green, acting permit agent for Wintershall. It was performed by Mr. Barry N. Hibbets of LAC.

The project area is located in the NW $\frac{1}{4}$  SW $\frac{1}{4}$  of section 8, Township 37 South, Range 22 East, S.L.M., San Juan County, Utah. The two proposed access routes begin at a BLM gravel pit and traverse the SW $\frac{1}{4}$  SW $\frac{1}{4}$  of section 8.

The survey was conducted during the pre-drill inspection held on November 2nd. Those present during the inspection were Hibbets (LAC), Ms. Lisa Green (Permitco), Mr. Gerald Huddleston



(surveyor), Mr. Rich McClure (BLM), and Mr. Lowell Larson (Atchison Construction).

#### PHYSIOGRAPHY AND ENVIRONMENT

The proposed well site and access routes are located on a broad south dipping cuesta bounded by Westwater Creek and Cottonwood Canyon about six miles southwest of the community of Blanding. The cuesta is typically undulating north-south ridges separated by south flowing arroyos and washes. The proposed well and access routes lie at an elevation of approximately 5760' MSL.

The project area is located in a dense pygmy pinyon-juniper forest (juniper dominant). Major understory species include big sage, broom snakeweed, narrow-leaf yucca, ephedra, squawbush, and prickley pear.

Sediments consist of reddish sandy loam intermixed with ancestral terrace gravels. Occasional exposures of sandstone substrata are present throughout the pad area.

There are no perennial sources of water in or near the project area. Major washes and arroyos carry water seasonally, usually following late summer thunderstorms and during spring runoff.

Avian, reptilian, and mammalian associations are consistent with those of the Upper Sonoran Life Zone throughout the Colorado Plateau.

## **SURVEY PROCEDURE**

Prior to the initiation of the field work a site file and literature review was conducted at the BLM - San Juan Resource Area in Monticello. The results of this review concluded that although numerous sites are present surrounding the project area, none are located on any of the project features. Also, both the well pad and access route have been traversed by several seismic clearance surveys.

On-the-ground survey was conducted by the single archeologist systematically walking over the well pad via a series of parallel transects spaced at 15m intervals. A 400 x 400' square area surrounding the well center stake, and a 30m (98') corridor flanking the centerline of the proposed access routes was archeologically surveyed.

## **SURVEY RESULTS**

No prehistoric or historic cultural resources were located on the well site or either of the proposed access routes.

## **SUMMARY AND RECOMMENDATION**

On November 2, 1984 an archeological survey of Wintershall Oil and Gas Corp.'s Federal 8-13 well site and two alternative access routes totaling 1200' was inventoried for possible cultural resources by Mr. Barry N. Hibbets of La Plata Archeological Consultants, Inc. The project area is located on land administered by the Bureau of Land Management - San Juan Resource Area

in San Juan County, Utah. No archeological sites were discovered during the investigation. If subsurface cultural deposits are discovered during the construction of the pad, work should be halted and the San Juan Resource Area archeologist be notified immediately. Measures will then be taken to evaluate the resource. Given this stipulation archeological clearance of Wintershall's Federal 8-13 and access road is recommended.

OPERATOR Wintershall Oil & Gas Corp DATE 11-21-84

WELL NAME Sid. 27-43

SEC NE SE 27 T 37S R 23E COUNTY San Juan

43-037-31107  
API NUMBER

Sid  
TYPE OF LEASE

CHECK OFF:

- PLAT
- BOND
- NEAREST WELL
- LEASE
- FIELD
- POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other wells within 1000'

Need water permit

Exception loc. requested

APPROVAL LETTER:

- SPACING:  A-3 \_\_\_\_\_ UNIT  c-3-a \_\_\_\_\_ CAUSE NO. & DATE
- c-3-b  c-3-c

STIPULATIONS:

1- water

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STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

November 23, 1984

Wintershall Oil & Gas Corporation  
c/o Permitco  
1020 - 15th Street, Suite 22-E  
Denver, Colorado 80202

Gentlemen:

Re: Well No. Federal #27-43 - NE SE Sec. 27, T. 37S, R. 23E  
2280' FSL, 1050' FEL - San Juan County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

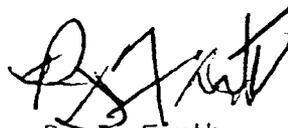
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Wintershall Oil & Gas Corporation  
Well No. Federal #27-43  
November 23, 1984  
Page 2

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31107.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 Wintershall Oil & Gas Corp. c/o PERMITCO 303/595-4051

3. ADDRESS OF OPERATOR  
 1020-15th Street, Suite 22-E Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface 2280' FSL and 1050' FEL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 11.5 miles southeast of Blanding, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
 270'

16. NO. OF ACRES IN LEASE  
 480

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 none

19. PROPOSED DEPTH  
 6500'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5692' GR

22. APPROX. DATE WORK WILL START\*  
 November 25, 1984

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	2290'	1050 sx - circulated to surface
7-7/8"	5-1/2"	15.5#	6500'	450 sx - or sufficient to cover zones of interest.

Wintershall Oil & Gas Corp. proposes to drill a well to 6500' to test the Upper Ismay and Desert Creek formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

RECEIVED  
 JAN 24 1985

DIVISION OF  
 OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Lisa L. Green TITLE Consultant for: Wintershall Oil & Gas DATE 11/9/84

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY Kenneth V. Rhea TITLE Acting DISTRICT MANAGER DATE 23 JAN 1985

CONDITIONS OF APPROVAL, IF ANY:

FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A DATED 1/1/80

SUBJECT TO RIGHT OF WAY NOTICE OF APPROVAL APPROVAL

# Permitco

A Petroleum Permitting Company

November 9, 1984

State of Utah  
Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Re: Wintershall Oil & Gas Corp.  
Federal #27-43  
2280' FSL and 1020' FEL  
Sec. 9, T37S - R23E  
San Juan County, Utah

Gentlemen:

Wintershall Oil & Gas Corp. proposes to drill a well at the above mentioned location.

We realize that this location is a non-standard location in accordance with the spacing rules of the State of Utah. This location was picked due to topography and extensive seismic work which was done in the immediate area.

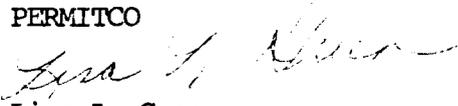
Wintershall Oil & Gas Corp. is the lease holder of the following:

T37S - R23E: Sec. 27: N/2, SE/4

Therefore, no other lease holders will be affected by the drilling of the above proposed well. We, therefore, request your permission to drill this well at a non-standard location.

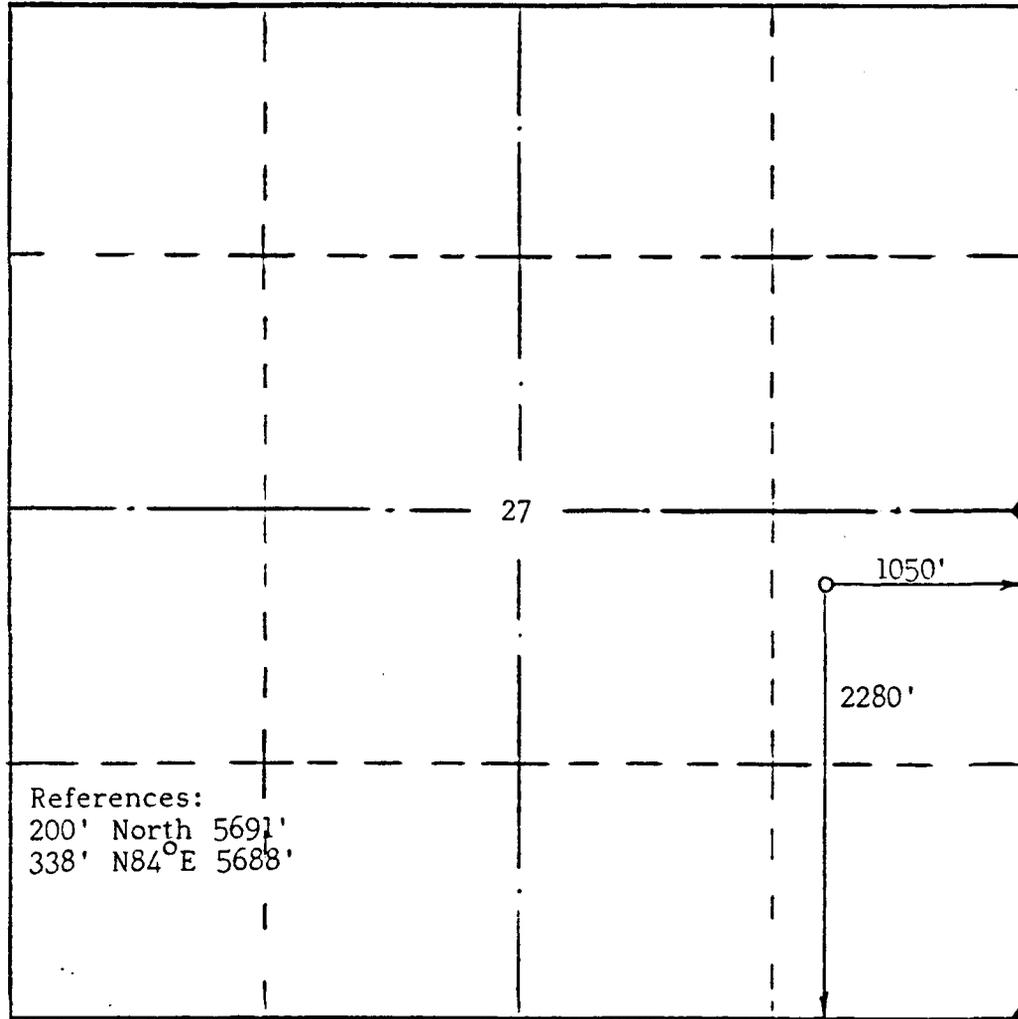
Sincerely,

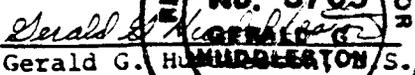
PERMITCO

  
Lisa L. Green  
Consultant for  
Wintershall Oil and Gas Corp.

cc: Wintershall Oil & Gas Corp.

WELL LOCATION AND ACREAGE DEDICATION PLAT



Operator Wintershall O & G		Well name 27-43 Federal	
Section 27	Township 37South	Range 23 East	Meridian SLM
Footages 2280' FS & 1050' FE		County/State San Juan, Utah	Elevation 5692'
Formation	Dedicated Acreage	Requested by Lisa Green	
<p>The above plat is true and correct to the best of my knowledge and belief.</p> <p>October 26, 1984</p> <p style="text-align: center;">               Gerald G. Middleton S.   </p>			

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS  
DIVISION OF OIL, GAS & MINING

(Do not use this form for proposals to drill or to deepen or plug back a well in a reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Wintershall Oil and Gas Corp.

3. ADDRESS OF OPERATOR  
5675 DTC Blvd, Englewood, CO 80111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2280' FSL & 1050' FEL (NESE)  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

5. LEASE  
U-37845

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
None

7. UNIT AGREEMENT NAME  
None

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
#27-43

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 27, T37S-R23E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

14. API NO.  
43-037-31107

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5692'GR; 5706'KB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) Well status <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Pursuant to telephone notification on 2/7/85, this well was spudded at 7 p.m., 2/7/85.

Drilled to a depth of 101'. Ran 2 jts, 13-3/8" conductor casing and set at 101'. Cemented with 125 sxs Class B. Circulated 10 1/2 bbls cement to surface.

Drilled to 2198'. Ran 52 jts, 9-5/8", 36#, J-55, ST&C surface casing and set at 2194.35'. Cemented with 600 sxs Lite-Wt. and 300 sxs Class B. Circulated 10 bbls cement to surface.

Current operation 2/11/85: drilling out cement.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct  
SIGNED Richard Shuster TITLE Sr. Reservoir Engr DATE 2/11/85

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: Utah OGMD ✓

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Wintershall Oil and Gas Corporation

3. ADDRESS OF OPERATOR  
5675 DTC Blvd., Englewood, CO 80111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2280' FSL & 1050' FEL (NESE)  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Well Status			X

5. LEASE  
U-37845

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
None

7. UNIT AGREEMENT NAME  
None

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
#27-43

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 27, T37S-R23E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

14. API NO.  
43-037-31107

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5692'GR; 5706' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Current operation 2/15/85: Drilling head at 5768

**RECEIVED**

FEB 19 1985

DIVISION OF OIL  
GAS & MINING

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Alan P. Howell TITLE Operator Mgr. DATE 2/15/85

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: Utah OGMD ✓

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator Wintershell O&G Representative Arky Browning

Well No. 27-43 Location 1/4 1/4 Section 27 Township 37S Range 23E

Lease No. U-37845 Field Undesignated State San Juan Co., UT

Unit Name and Required Depth NA Base of fresh water sands \_\_\_\_\_

T.D. 6388 Size hole and Fell per sack \_\_\_\_\_ Mud Weight and Top \_\_\_\_\_ #/gal. \_\_\_\_\_

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		
				From	To	Sacks Cement
		<u>50' surface plug</u>				
<u>9 5/8</u>	<u>2198</u>	<u>surf.</u>	<u>-</u>	<u>2144</u>	<u>2244</u>	<u>as req'd</u>
Formation	Top	Base	Shows			
<u>DeChelly</u>	<u>3110</u>					
<u>Hermosa</u>	<u>4440</u>					
<u>Ismay</u>	<u>6016</u>			<u>5950</u>	<u>TD</u>	<u>as req'd</u>
<u>D. Crk.</u>	<u>6264</u>					

REMARKS

DST's, lost circulation zones, water zones, etc., sl. shows in Ismay. No CI incr. thru  
cutter.

Approved by Bob Graff Date 2/20/85 Time 8:45 (a.m.)  
p.m.

Oper. w/ cond. of app.  
Well file  
MER  
SIRA



FORM 1908 R-4

A Division of Halliburton Company  
DUNCAN, OKLAHOMA 73536

# WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. 796905

DISTRICT Cortez

DATE 2-20-85

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Wintershall Oil & Gas Corp  
(CUSTOMER)  
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 27-43 LEASE Federal SEC. 27 TWP. 37S RANGE 23E

FIELD \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_ OWNED BY \_\_\_\_\_

### THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
BORE HOLE							
INITIAL PROD: OIL _____ BPD, H <sub>2</sub> O _____ BPD, GAS _____ MCF							
PRESENT PROD: OIL _____ BPD, H <sub>2</sub> O _____ BPD, GAS _____ MCF							
		CASING	<u>11</u>	<u>9 7/8</u>	<u>0</u>	<u>2171</u>	
		LINER					
		<del>TUBING</del>	<u>11</u>	<u>16.6</u>	<u>4 1/2</u>	<u>Variable</u>	
		OPEN HOLE					SHOTS/FT.
		PERFORATIONS					
		PERFORATIONS					
		PERFORATIONS					

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_

Plug to Abandon Flow 4 1/2" Drill pipe

### CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

As consideration, the above-named Customer agrees:

- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
- Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.
- Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.
- Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass, or an action in the nature thereof arising from a service operation performed by Halliburton hereunder.
- Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, entry to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well bore, unless such damages shall be caused by the willful misconduct or gross negligence of Halliburton.
- Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results or any treatment or service.
- Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer and at the landing unreturned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the accuracy of any lithological interpretation, research analysis, log recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be responsible for any damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of it.
- Halliburton warrants only into the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's obligation hereunder shall be limited to the replacement cost of such products, supplies or materials on their return to Halliburton or at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for consequential or special damages.
- Customer shall pay to Halliburton the following amount upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is billed. Customer agrees to pay interest thereon after default at the highest lawful interest rate applicable but never to exceed 16% per annum. In the event it becomes necessary to foreclose an account, to enforce collection of said account, Customer agrees to pay all out-of-pocket collection agency fees in the amount of 20% of the amount of the unpaid account.
- Customer shall be deemed to have accepted the work done when the services are performed or equipment or materials are furnished.
- Customer's obligations under this contract shall be modified only by a written agreement in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT

SIGNED \_\_\_\_\_  
DATE \_\_\_\_\_  
TIME \_\_\_\_\_ A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

# HALLIBURTON SERVICES JOB SUMMARY

FORM 2012 R-2

HALLIBURTON DIVISION MIDLAND  
HALLIBURTON LOCATION Coatez Jo

BILLED ON TICKET NO. 796709

CUSTOMER: Midland LEASE: 12/20/85 WELL NO.: 9743 JOB TYPE: PTA DATE: 2-20-85

**WELL DATA**  
 FIELD \_\_\_\_\_ SEC. 27 TWP. 37S RNG. 23E COUNTY San Juan STATE Utah

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		<u>u</u>		<u>9 7/8</u>	<u>0</u>	<u>774</u>	
LINER							
TUBING		<u>u</u>	<u>16.6</u>	<u>4.5"</u>	<u>VARIOUS</u>		
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
 INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_  
 PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_  
 COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
 PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
 BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
 MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-20-85</u>	DATE <u>2-20-85</u>	DATE <u>2-20-85</u>	DATE <u>2-20-85</u>
TIME <u>0750</u>	TIME <u>1300</u>	TIME <u>1402</u>	TIME <u>2052</u>

**MATERIALS**

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. °API \_\_\_\_\_  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. °API \_\_\_\_\_  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB. \_\_\_\_\_  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB. \_\_\_\_\_  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_  
 SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN \_\_\_\_\_  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN \_\_\_\_\_  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_  
 PERFFAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>I. Webster</u>	<u>28713</u>	
<u>H. [unclear]</u>	<u>2102</u>	
<u>R. [unclear]</u>	<u>4410</u>	

DEPARTMENT 505  
 DESCRIPTION OF JOB PTA Fluid 1/2 Well

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE X Arkie Browning  
 HALLIBURTON OPERATOR I. Webster COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>170</u>	<u>WEAT</u>	<u>15</u>	<u>IDENT</u>	<u>no</u>	<u>1/1/1</u>	<u>1.12</u>	<u>156</u>
<u>2</u>	<u>37</u>	<u>WEAT</u>	<u>15</u>	<u>IDENT</u>	<u>no</u>	<u>1/1/1</u>	<u>1.12</u>	<u>156</u>
<u>3</u>	<u>23</u>	<u>WEAT</u>	<u>15</u>	<u>IDENT</u>	<u>no</u>	<u>1/1/1</u>	<u>1.12</u>	<u>156</u>

**PRESSURES IN PSI** \_\_\_\_\_ **SUMMARY** \_\_\_\_\_ **VOLUMES** \_\_\_\_\_

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESFLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 78,780  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 35,818  
**HYDRAULIC HORSEPOWER** \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ **REMARKS** \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET \_\_\_\_\_ REASON \_\_\_\_\_

CUSTOMER



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Wintershall Oil and Gas Corporation

3. ADDRESS OF OPERATOR  
5675 DTC Blvd., Englewood, CO 80111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2280' FSL & 1050' FEL (NESE)  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. CASE  
U-37845

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
None

7. UNIT AGREEMENT NAME  
None

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
#27-43

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 27, T37S-R23E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

14. API NO.  
43-037-31107

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5692'GR; 5706' KB

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(other)	<input type="checkbox"/>	<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Plugged well, per verbal approval by Bob Graff, as follows:

Plug #1 6388-5950' with 170 sxs Class B cement  
 Plug #2 2244-2144' with 37 sxs Class B cement  
 Plug #3 50' to sfc with 20 sxs Class B cement

Well P&A'd 2/21/85.

**RECEIVED**  
**FEB 25 1985**  
 DIVISION OF OIL  
 GAS & MINING

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED David P. Howard TITLE Operations Mgr. DATE 2/22/85

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: Utah OGMDC ✓

\*See Instructions on Reverse Side

**ACCEPTED BY THE STATE**  
**OF UTAH DIVISION OF**  
**OIL, GAS, AND MINING**  
 DATE: 2/26/85  
 BY: John R. Bara

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
4241 State Office Building  
Salt Lake City, UT 84114

RECEIVED

FEB 25 1985

DIVISION OF OIL  
GAS & MINING

\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number Federal #27-43  
Operator Wintershall Oil and Gas Corp. Address 5675 DTC Blvd., Ste. 200  
Englewood, CO 80111  
Contractor Coleman Drilling Co. Address Drawer 3337  
Farmington, NM 87499  
Location NE 1/4 SE 1/4 Sec. 27 T. 37S R. 23E County San Juan

Water Sands

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	<u>NO WATER ENCOUNTERED WHILE DRILLING TO TD.</u>		
2.	<u> </u>		
3.	<u> </u>		
4.	<u> </u>		
5.	<u> </u>		

(Continue on reverse side if necessary)

<u>Formation Tops</u>	Chinle 2150'	Ismay 6016'
	DeChelley 3110'	Desert Creek 6264'
	Cutler 3202'	Akah 6354'
<u>Remarks</u>	Hermosa 4136'	TD 6388'

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

RECEIVED

SEP 27 1985

DIVISION OF OIL  
GAS & MINING

IGT

WINTERSHALL OIL & GAS CORP.  
UTE CANYON #27-43  
SEC. 27, T37S-R23E  
SAN JUAN COUNTY, UTAH

IGT  
INTERMOUNTAIN GEO-TECH, INC.  
P. O. BOX 158  
DELTA, CO 81416  
303-874-7762

WINTERSHALL OIL & GAS CORP.  
UTE CANYON #27-43  
SEC. 27, T37S-R23E  
SAN JUAN COUNTY, UTAH

February 19, 1985

The Wintershall Ute Canyon Federal #27-43 well was spudded February 7, 1985. 133/8" conductor pipe was set at 87 ft. and 9 5/8" surface casing was set at 2155 ft.

IGT Unit #1 was on location, rigged up and logging February 12, 1985 at 3860 ft. Drilling went smoothly averaging 800 ft./day until February 15, 1985. On February 14, 1985 some repairs were made on the wash pipe and then a bit trip was made. Drilling resumed and the top of the Upper Ismay formation was encountered on February 16, 1985. Drill Stem Test #1 was run on the Upper Ismay formation at the depth of 6115 ft. to 6145 ft. on February 17, 1985. Drilling resumed that evening and continued until total depth was reached at 6336 ft. on the morning of February 18, 1985.

Electric logs were run followed by a velocity survey. Based on Electric log evaluation a second DST was run on the Lower Ismay formation on February 19, 1985. IGT Unit #1 was released on February 19, 1985.

JAN A. JOHNSON  
GEOLOGIST - IGT

WINTERSHALL OIL & GAS CORP.  
UTE CANYON #27-43  
SEC. 27, T37S-R23E  
SAN JUAN COUNTY, UTAH

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(1) COPY, FINAL MUD LOG ( 5"=100')  
(1) COPY, FINAL MUD LOG (2.5"=100')

DRILLING CONTRACTOR: COLEMAN RIG #3  
FARMINGTON, NEW MEXICO

DRILLING FOREMAN: MR. JOHN LOWRY

PUSHER: MR. GLEN STORIE

GEO TECHNOLOGISTS: MS. JAN A. JOHNSON - MR. TERRY DAoust  
INTERMOUNTAIN GEO-TECH, INC.  
DELTA, CO 81416

DRILLING FLUID: MR. JOHN HUNTER  
HUNTER MUD & CHEMICAL  
FARMINGTON, NEW MEXICO

DRILL STEM TEST: MR. DOUG FOSTER  
HALLIBURTON  
FARMINGTON, NEW MEXICO

WIRE LINE LOGS: MR. PAUL HOWARD  
SCHLUMBERGER  
FARMINGTON, NEW MEXICO

GEOLOGIST: MR. RIC KOPP  
GEOLOGIST, WINTERSHALL OIL & GAS CORP.  
DENVER, CO

WINTERSHALL OIL & GAS CORP.  
UTE CANYON #27-43  
SFC. 27, T37S-R23E  
SAN JUAN COUNTY, UTAH

SUMMARY OF DAILY ACTIVITY

<u>DATE</u>	<u>ACTIVITY</u>	<u>MIDNITE DEPTH</u>	<u>24 HOUR FOOTAGE</u>
2/12/85	IGT UNIT #1 ON LOCATION, RIGGED UP, BIT TRIP, LOGGING AT 3860'	3978'	118'
2/13/85	DRLG	4874'	896'
2/14/85	DRLG	5678'	754'
2/15/85	DRLG, REPAIR WASH PIPE, DRLG, BIT TRIP, DRLG	5976'	348'
2/16/85	DRLG, CIRC FOR DST #1, TOH - TIH	6145'	169'
2/17/85	TIH - DST #1 - DRLG	6370'	225'
2/18/85	DRLG, CIRC "E" LOGS - TOH - RUN "E" LOGS	6386'	16'
2/19/85	IGT UNIT #1 RELEASED	--	--

WINTERSHALL OIL & GAS CORP.  
 UTE CANYON #27-43  
 SEC. 27, T37S-R23E  
 SAN JUAN COUNTY, UTAH

BIT RECORD

BIT	MAKE	SIZE	TYPE	DEPTH OUT	FOOTAGE USED	HOURS
1	STC	12¼	F-3	100'	100'	4
2	SEC	17½	M-44	100'	100'	2½
3	STC	12¼	F-3	798'	698'	16
4	SEC	12¼	586-F	1713'	915'	8¼
5	STC	12¼	F-3	2198'	485'	9½
6	VAREL	7 7/8	V537	3855'	1657'	32
7	SANDVIK	7 7/8	CFS-30	5876'	2021'	58½

WINTERSHALL OIL & GAS CORP.  
UTE CANYON #27-43  
SEC. 27. T37S-R23E  
SAN JUAN COUNTY, UTAH

DEVIATION SHEET FOR WELL. . . .

DEPTH	DEVIATION (DEV)
100'	$\frac{1}{2}^{\circ}$
250'	$\frac{1}{2}^{\circ}$
547'	$\frac{1}{2}^{\circ}$
849'	$\frac{1}{2}^{\circ}$
1072'	$\frac{1}{2}^{\circ}$
1458'	$\frac{1}{2}^{\circ}$
1673'	$\frac{3}{4}^{\circ}$
2198'	$\frac{3}{4}^{\circ}$
2675'	$\frac{1}{2}^{\circ}$
3166'	$\frac{3}{4}^{\circ}$
3670'	$\frac{3}{4}^{\circ}$
3815'	$\frac{3}{4}^{\circ}$
4441'	1 $^{\circ}$
4929'	$\frac{3}{4}^{\circ}$
5612'	$\frac{1}{4}^{\circ}$
5876'	$\frac{3}{4}^{\circ}$
6145'	$\frac{1}{2}^{\circ}$
6386'	$\frac{1}{2}^{\circ}$

(IGT)  
DST & SHOW SHEET

SHOW # 1 FROM 6119' ' TO 6140' ' DATE 2/16/85

COMPANY WINTERSHALL OIL & GAS CORP.  
WELL UTE CANYON FEDERAL #27-43  
FIELD WILDCAT

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE	10 min/ft	3 min/ft	5 min/ft
TOTAL GAS UNITS	100	330	100
METHANE %	.85	8.0	1.4
ETHANE %	.25	1.9	.36
PROPANE %	.08	.98	.16
BUTANE (ISO) %	--	--	--
BUTANE (NOR) %	--	--	--
PENTANE %	--	--	--

SAMPLE LITHOLOGY LS M-DK GY-BRN GY MICXL-FXL DOL IP FOS SLTY IP N VIS POR NSOC MFRM-FRM

SAMPLE FLOR AND CUT TR PP DULL YEL FLOR NO CUT

DST # 1 FROM 6115' ' TO 6145' ' DATE 2/17/85

	MINUTES	TOP CHART	BOTTOM CHART
INITIAL HYDROSTATIC		3043.5	3074.8
INITIAL OPEN	15	26.9 - 26.9	40.6 - 40.6
INITIAL SHUT-IN	30	134.1	148.7
SECOND OPEN	60	26.9 - 26.9	40.6 - 40.6
SECOND SHUT-IN	120	402.2	459.5
FINAL HYDROSTATIC		2992.0	3047.6

1ST FLOW OPENED W/WEAK BLO NO GAS TO SURFACE

2ND FLOW OPENED W/WEAK BLO NO GAS TO SURFACE

REMARKS BHT<sup>o</sup> 140

DRILL PIPE RECOVERY 5' MUD

SAMPLE CHAMBER RECOVERY 2300 cc MUD 280 psi

DRILL PIPE- TOP- R/W= at <sup>o</sup>F, MIDDLE-R/W= at <sup>o</sup>F,

DRILL PIPE- BOTTOM-R/W= at <sup>o</sup>F, SAMPLE CHMBR.- R/W= at <sup>o</sup>F,

PIT MUD-R/W= at <sup>o</sup>F

GEO-TECH JAN A. JOHNSON

WINTERSHALL OIL & GAS CORP.  
UTE CANYON #27-43  
SEC. 27, T37S-R23E  
SAN JUAN COUNTY, UTAH

FORMATION TOPS

<u>FORMATION</u>	<u>SAMPLE TOP DEPTH</u>	<u>E-LOG DEPTH</u>	<u>SUB-SEA DEPTH</u>
HONAKER TRAIL	4938'	--	--
UPPER ISMAY	6012'	6016'	-313'
HOVENWEEP	6152'	6151'	-448'
LOWER ISMAY	6178'	6172'	-469'
GOTHIC	6222'	6230'	-527'
DESERT CREEK	6262'	6264'	-561'
CHIMNEY ROCK	6328'	6328'	-625'
AKAH	6352'	6353'	-650'

RECEIVED

FEB 28 1985

DIVISION OF OIL  
GAS & MINING



TICKET NO. 71961500  
21-FEB-85  
FARMINGTON

FORMATION TESTING SERVICE REPORT

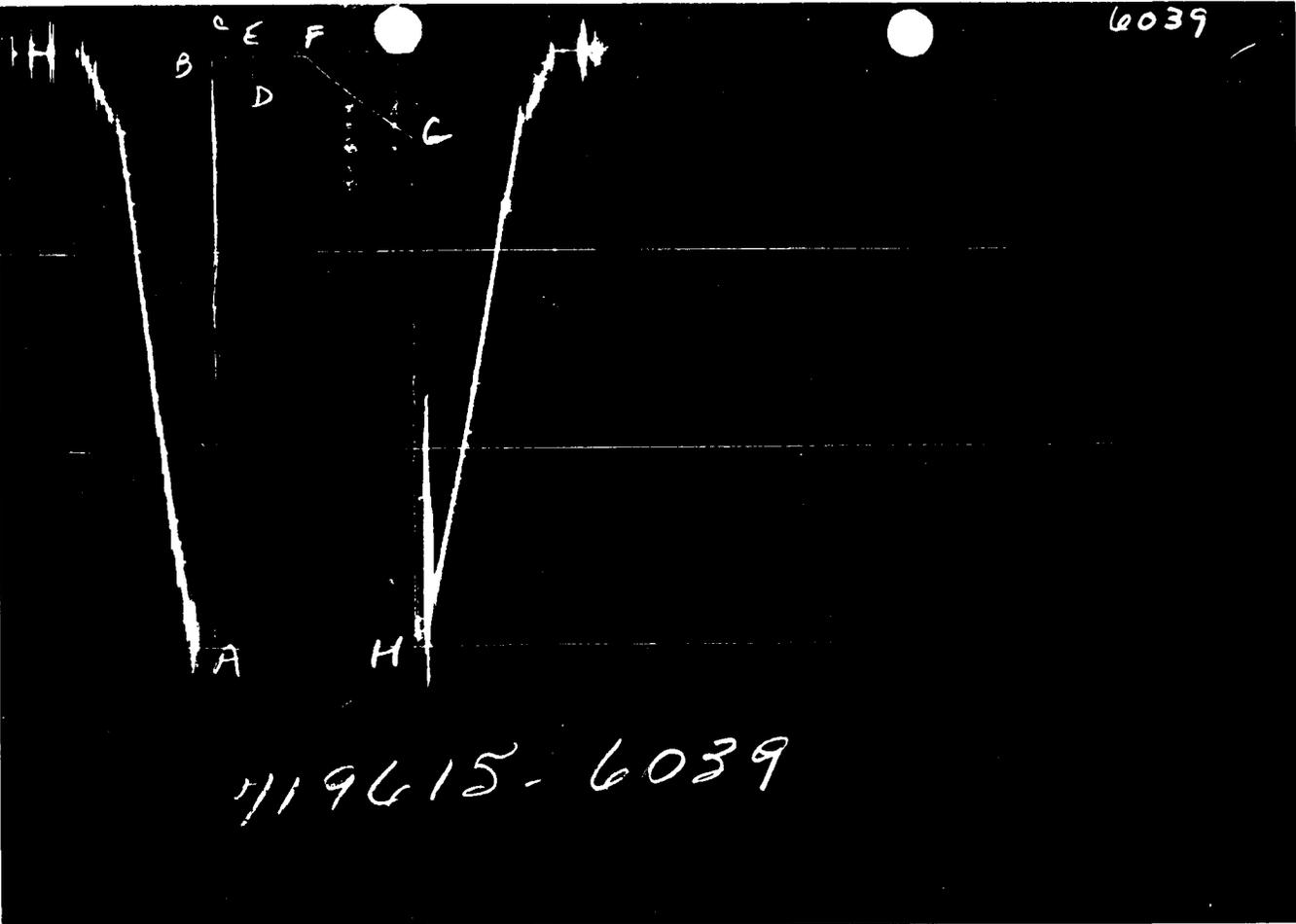
FEDERAL	27-43	1	6114.1 - 6145.1	WINTERSHALL OIL AND GAS CORPORATION
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SECT. - TWP. - RANG.	27-37S-23E			
		FIELD AREA		
		WILDCAT		
		COUNTY		
		SAN JUAN		
		STATE		
		UTAH		
		IC		



GAUGE NO: 6039 DEPTH: 6093.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3043	2916.4			
B	INITIAL FIRST FLOW	26	26.3			
C	FINAL FIRST FLOW	26	25.6	15.0	15.0	F
C	INITIAL FIRST CLOSED-IN	26	25.6			
D	FINAL FIRST CLOSED-IN	134	130.7	30.0	30.0	C
E	INITIAL SECOND FLOW	26	24.8			
F	FINAL SECOND FLOW	26	24.8	60.0	60.0	F
F	INITIAL SECOND CLOSED-IN	26	24.8			
G	FINAL SECOND CLOSED-IN	402	433.1	120.0	120.0	C
H	FINAL HYDROSTATIC	2992	2908.4			

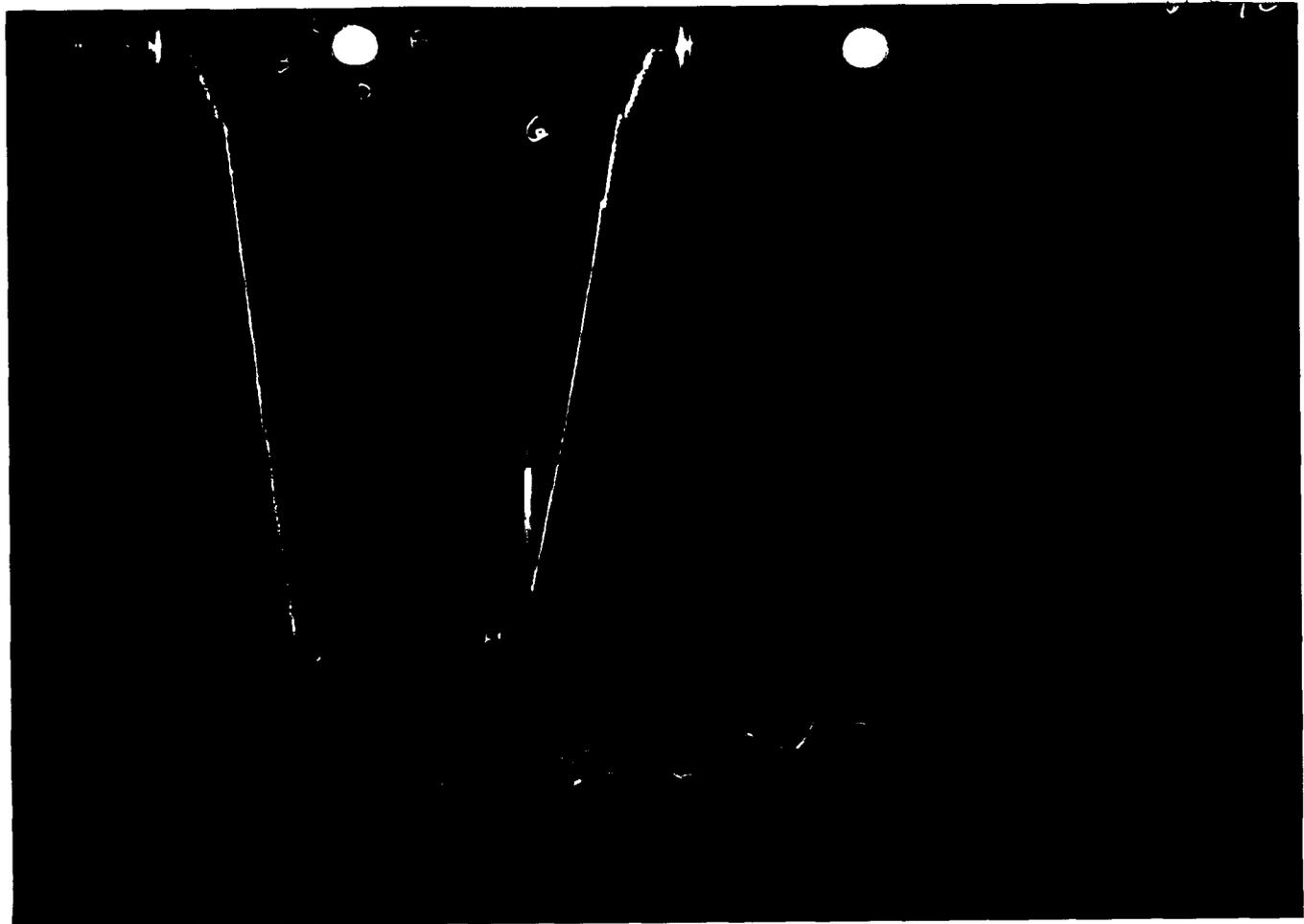
6039



119615-6039

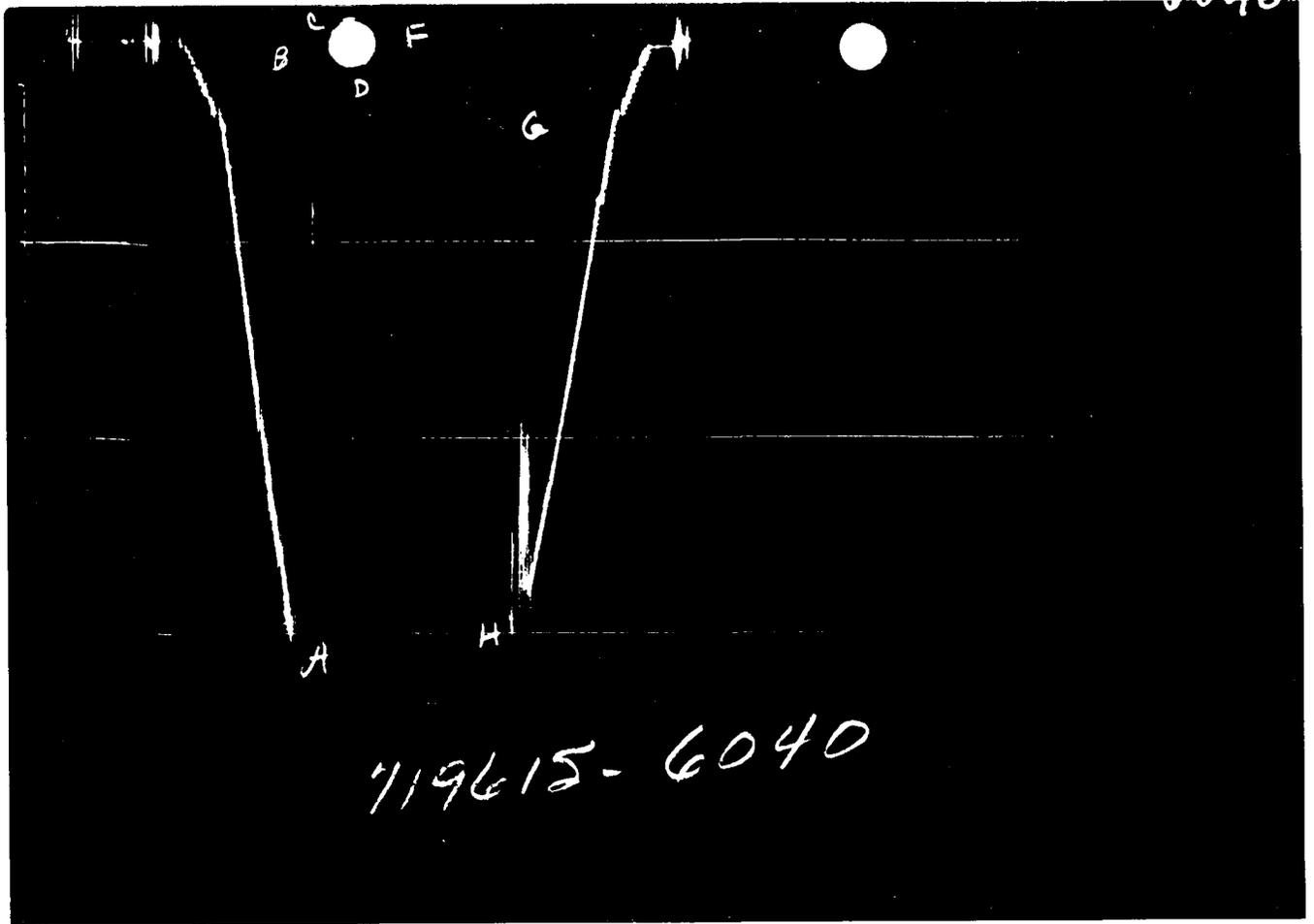
GAUGE NO: 6039 DEPTH: 1400 FT BLANKED OFF: 0 HOUR OF CLOCK: 11:30

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
1	100 FT. WATER COLUMN	300.0	299.4			
2	100 FT. WATER COLUMN	20	20.0	15.0	15.0	F
3	100 FT. WATER COLUMN	20	20.0			
4	100 FT. WATER COLUMN	20	20.0	30.0	30.0	F
5	100 FT. WATER COLUMN	100	100.0			
6	100 FT. WATER COLUMN	20	20.0	60.0	60.0	F
7	100 FT. WATER COLUMN	20	20.0			
8	100 FT. WATER COLUMN	20	20.0	120.0	120.0	F
9	100 FT. WATER COLUMN	40	40.0			
10	100 FT. WATER COLUMN	200	200.0			



GAUGE NO: 6040 DEPTH: 6142.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3074	2945.8			
B	INITIAL FIRST FLOW	40	51.1			
C	FINAL FIRST FLOW	40	50.5	15.0	15.0	F
C	INITIAL FIRST CLOSED-IN	40	50.5			
D	FINAL FIRST CLOSED-IN	148	153.0	30.0	30.0	C
E	INITIAL SECOND FLOW	40	48.1			
F	FINAL SECOND FLOW	40	50.3	60.0	60.0	F
F	INITIAL SECOND CLOSED-IN	40	50.3			
G	FINAL SECOND CLOSED-IN	459	462.7	120.0	120.0	C
H	FINAL HYDROSTATIC	3047	2937.0			



CRUZE NO: 1004 DEPTH: 1042.0 BLANKED OFF: 10 HOUR OF CLOCK: 04

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
0	INITIAL WATER TEMPERATURE	20.0	20.0			
1	INITIAL WATER SALINITY	40	40.1			
2	WATER TEMPERATURE	40	40.0	15.0	15.0	F
3	WATER SALINITY	4	4.0			
4	WATER TEMPERATURE	140	140.0	30.0	30.0	F
5	INITIAL WATER TEMPERATURE	40	40.1			
6	INITIAL WATER SALINITY	40	40.1	60.0	60.0	F
7	INITIAL WATER TEMPERATURE	40	40.0			
8	INITIAL WATER SALINITY	400	400.0	120.0	120.0	F
9	INITIAL WATER TEMPERATURE	4.0	4.0			





		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	5258.0	
3		DRILL COLLARS.....	6.250	2.750	780.0	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	6018.0
3		DRILL COLLARS.....	6.250	2.750	60.0	
5		CROSSOVER.....	6.000	3.000	1.0	
13		DUAL CIP SAMPLER.....	5.030	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	6091.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	6093.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	6108.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	6114.0
20		FLUSH JOINT ANCHOR.....	5.750	3.000	25.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	6142.0
TOTAL DEPTH					6145.0	

EQUIPMENT DATA



TICKET NO. 71961600  
25-FEB-85  
FARMINGTON

RECEIVED

MAR 01 1985

DIVISION OF OIL  
GAS & MINING

# FORMATION TESTING SERVICE REPORT

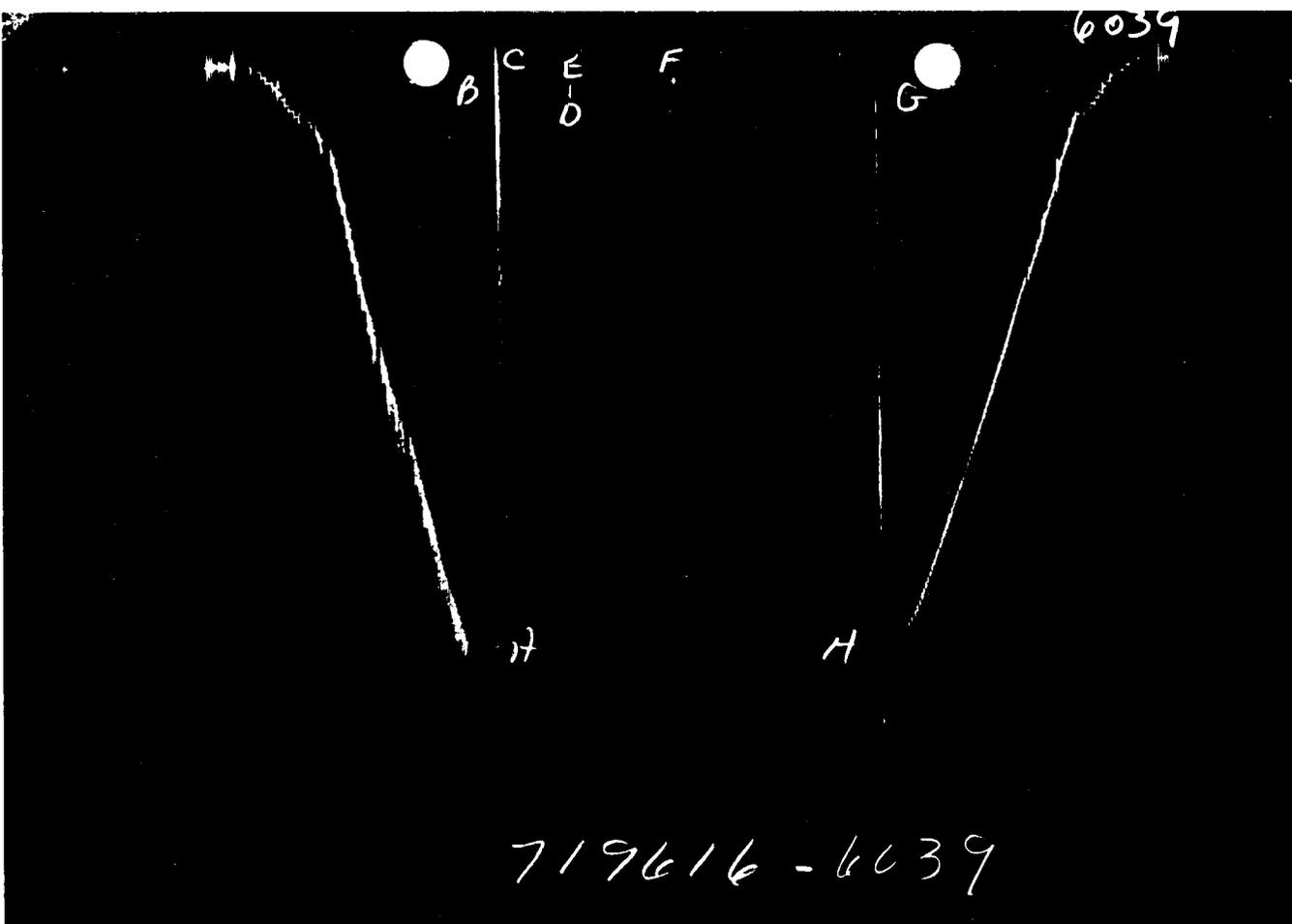
FEDERAL LEASE NAME 27-43 WELL NO. 2 TEST NO. 6200.1 - 6280.1 WINTERSHALL OIL AND GAS CORPORATION  
LEGAL LOCATION 27-37S-23E FIELD AREA WILD CRT COUNTY SAN JUAN STATE UTAH DR  
SEC. - TYP. - RNG. TESTED INTERVAL LEASE OWNER/COMPANY NAME

6039

B C E F  
D

GAUGE NO: 6039 DEPTH: 6179.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3098	3102.6			
B	INITIAL FIRST FLOW	67	72.7			
C	FINAL FIRST FLOW	67	104.6	15.0	15.0	F
C	INITIAL FIRST CLOSED-IN	67	104.6			
D	FINAL FIRST CLOSED-IN	174	176.9	30.0	30.0	C
E	INITIAL SECOND FLOW	107	116.1			
F	FINAL SECOND FLOW	107	101.2	61.0	61.0	F
F	INITIAL SECOND CLOSED-IN	107	101.2			
G	FINAL SECOND CLOSED-IN	188	222.8	120.0	120.0	C
H	FINAL HYDROSTATIC	3071	3108.8			
I	HYDROSTATIC RELEASE					



GAUGE NO.: 0006 DEPTH: 9128.0 BLANKED OFF: 00 HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3096	3102.6			
B	INITIAL FIRST FLOW	67	72.7			
C	FINEO FIRST FLOW	67	104.6	15.0	15.0	F
C	INITIAL FIRST CLOSED-IN	67	104.0			
D	FINAL FIRST CLOSED-IN	174	176.6	30.0	30.0	C
E	INITIAL SECOND FLOW	107	116.1			
F	FINAL SECOND FLOW	107	101.2	61.0	61.0	F
F	INITIAL SECOND CLOSED-IN	107	101.2			
G	FINAL SECOND CLOSED-IN	188	222.6	120.0	120.0	C
H	FINAL HYDROSTATIC	3071	3108.8			
I	HYDROSTATIC RELEASE					

6040

B  
D

G

GAUGE NO: 6040 DEPTH: 6268.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3129	3150.7			
B	INITIAL FIRST FLOW	108	116.6	15.0	15.0	F
C	FINAL FIRST FLOW	108	145.4			
C	INITIAL FIRST CLOSED-IN	108	145.4	30.0	30.0	C
D	FINAL FIRST CLOSED-IN	216	219.6			
E	INITIAL SECOND FLOW	135	134.3	61.0	61.0	F
F	FINAL SECOND FLOW	135	145.1			
F	INITIAL SECOND CLOSED-IN	135	145.1	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	257	268.8			
H	FINAL HYDROSTATIC	3116	3156.1			
I	HYDROSTATIC RELEASE					

6040



719616 - 6040

GAUGE NO: 34 DEPTH: 140.00 BLANKED OFF: 00 HOUR OF CLOCK: 00

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL PRESSURE	317.1	3156.7			
B	INITIAL PRESSURE	100	140.0			
C	INITIAL PRESSURE	100	140.0	15.0	15.0	1
D	INITIAL PRESSURE	100	140.0			
E	INITIAL PRESSURE	100	140.0			
F	INITIAL PRESSURE	200	280.0	30.0	30.0	1
G	INITIAL PRESSURE	100	140.0			
H	INITIAL PRESSURE	100	140.0	61.0	61.0	1
I	INITIAL PRESSURE	100	140.0			
J	INITIAL PRESSURE	100	140.0	120.0	120.0	1
K	INITIAL PRESSURE	200	280.0			
L	INITIAL PRESSURE	317.1	3156.7			
M	INITIAL PRESSURE					

## EQUIPMENT & HOLE DATA

FORMATION TESTED: LOWER ISMAY

NET PAY (ft): 19.0

GROSS TESTED FOOTAGE: 80.0

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): \_\_\_\_\_

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 5706

TOTAL DEPTH (ft): 6388.0

PACKER DEPTH(S) (ft): 6194, 6200, 6280, 6286

FINAL SURFACE CHOKE (in): \_\_\_\_\_

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.50

MUD VISCOSITY (sec): 42

ESTIMATED HOLE TEMP. (°F): \_\_\_\_\_

ACTUAL HOLE TEMP. (°F): 158 @ 6384.0 ft

TICKET NUMBER: 71961600

DATE: 2-19-85 TEST NO: 2

TYPE DST: ON BT. STRADDLE

HALLIBURTON CAMP:  
FARMINGTON

TESTER: GUNN  
FOSTER

WITNESS: BRONNING

DRILLING CONTRACTOR:  
COLEMAN #3

## FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>TOP</u>	<u>0.650 @ 70 °F</u>	<u>2606 ppm</u>
<u>BOTTOM</u>	<u>0.730 @ 66 °F</u>	<u>2424 ppm</u>
<u>SAMPLER</u>	<u>0.730 @ 64 °F</u>	<u>2242 ppm</u>
<u>MUD PIT</u>	<u>0.740 @ 63 °F</u>	<u>2485 ppm</u>
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

## SAMPLER DATA

Pstg AT SURFACE: 40

cu.ft. OF GAS: 0.04

cc OF OIL: 0

cc OF WATER: 0

cc OF MUD: 2200

TOTAL LIQUID cc: 2200

## HYDROCARBON PROPERTIES

OIL GRAVITY (°API): \_\_\_\_\_ @ \_\_\_\_\_ °F

GAS/OIL RATIO (cu.ft. per bbl): \_\_\_\_\_

GAS GRAVITY: \_\_\_\_\_

## CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

### RECOVERED:

180' OF GAS CUT MUD

MEASURED FROM TESTER VALVE

### REMARKS:

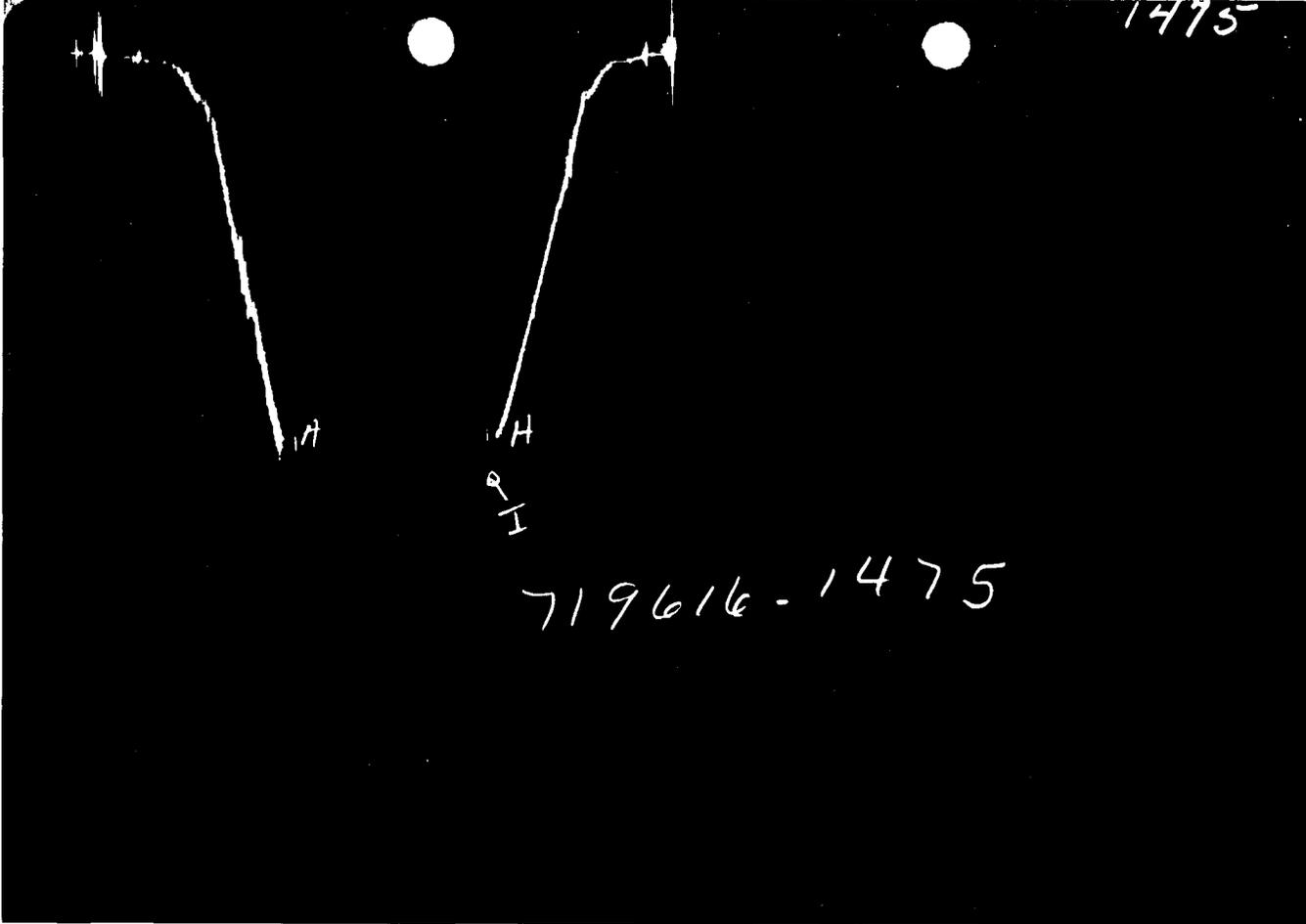
1475

1475

GAUGE NO: 1475 DEPTH: 6385.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3577	3205.3			
B	INITIAL FIRST FLOW			15.0		F
C	FINAL FIRST FLOW					
C	INITIAL FIRST CLOSED-IN			30.0		C
D	FINAL FIRST CLOSED-IN					
E	INITIAL SECOND FLOW			61.0		F
F	FINAL SECOND FLOW					
F	INITIAL SECOND CLOSED-IN			120.0		C
G	FINAL SECOND CLOSED-IN					
H	FINAL HYDROSTATIC	3493	3213.7			
I	HYDROSTATIC RELEASE		3494.3			

1475



719616-1475

GAUGE NO: 1475 DEPTH: 1000.0 BLANKED OFF: YES HOUR OF CLOCK: 14

JD	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
1	INITIAL SURFACE PRESSURE	3077	3088.3			
2	INITIAL SURFACE PRESSURE			15.0		1
3	INITIAL SURFACE PRESSURE					
4	INITIAL SURFACE PRESSURE			30.0		1
5	INITIAL SURFACE PRESSURE					
6	INITIAL SURFACE PRESSURE			60.0		1
7	INITIAL SURFACE PRESSURE					
8	INITIAL SURFACE PRESSURE			120.0		1
9	INITIAL SURFACE PRESSURE					
10	INITIAL SURFACE PRESSURE	3400	3404.2			
11	INITIAL SURFACE PRESSURE		3404.2			



		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	5565.0	
3		DRILL COLLARS.....	6.250	2.250	539.0	
50		IMPACT REVERSING SUB.....	5.750	3.000	1.0	6105.0
3		DRILL COLLARS.....	6.250	2.250	60.0	
5		CROSSOVER.....	5.750	3.000	1.0	
13		DUAL CIP SAMPLER.....	5.750	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	6177.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	6179.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	6194.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	6200.0
5		CROSSOVER.....	5.750	3.000	1.0	
3		DRILL COLLARS.....	6.250	2.250	30.0	
5		CROSSOVER.....	5.750	3.000	1.0	
20		FLUSH JOINT ANCHOR.....	5.750	3.000	33.0	
5		CROSSOVER.....	5.750	2.250	1.0	
80		AP RUNNING CASE.....	5.000	2.250	4.0	6268.0
23		BLANK SUB.....	5.000		1.0	
16		VR SAFETY JOINT.....	5.400	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	6280.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	6286.0
5		CROSSOVER.....	5.750	3.000	1.0	
3		DRILL COLLARS.....	6.250	2.250	91.0	
5		CROSSOVER.....	5.750	3.000	1.0	
20		FLUSH JOINT ANCHOR.....	5.750	3.000	3.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	6385.0
TOTAL DEPTH					6388.0	

EQUIPMENT DATA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**RECEIVED**  
SUBMIT IN DUPLICATE  
(See other instructions on reverse side)  
MAR 11 1985

Form approved,  
Budget Bureau No. 42-R355.5.

9

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other GAS & MINING  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other P & A

2. NAME OF OPERATOR  
Wintershall Oil and Gas Corporation  
 3. ADDRESS OF OPERATOR  
5675 DTC Blvd., Ste. 200, Englewood, CO 80111  
 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
 At surface 2280' FSL & 1050' FEL (NESE)  
 At top prod. interval reported below Same  
 At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.  
U-37845  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
None  
 7. UNIT AGREEMENT NAME  
None  
 8. FARM OR LEASE NAME  
Federal  
 9. WELL NO.  
27-43  
 10. FIELD AND POOL, OR WILDCAT  
Wildcat  
 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 27, T37S-R23E

14. PERMIT NO. 43-037-31107 DATE ISSUED 1/22/85

12. COUNTY OR PARISH San Juan 13. STATE Utah

15. DATE SPUDDED 2/7/85 16. DATE T.D. REACHED 2/18/85 17. DATE COMPL. P&A'd 2/21/85 18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* 5692' GR; 5706' KB 19. ELEV. CASINGHEAD ---

20. TOTAL DEPTH, MD & TVD 6388' 21. PLUG, BACK T.D., MD & TVD None 22. IF MULTIPLE COMPL., HOW MANY\* None 23. INTERVALS DRILLED BY Rotary ROTARY TOOLS Yes CABLE TOOLS No

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
NONE 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/SFL; CNL; BHC-Sonic 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	101'	17-1/2"	125 SXS	None
9-5/8"	36#	2194.35'	12-1/4"	900 SXS	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		NONE		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	NONE	

31. PERFORATION RECORD (Interval, size and number)  
NONE

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
NONE	

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
		P & A'd

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS Attached is Halliburton's cement plugging report. DST #1&2 sent directly to BLM and State by service company.  
 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Neil P. Howard TITLE Operations Manager DATE 3/8/85

\*(See Instructions and Spaces for Additional Data on Reverse Side)

cc: Utah OGMD ✓

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 33.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS																																										
<p><b>37. SUMMARY OF POROUS ZONES:</b> SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES</p>				<p><b>38.</b></p>																																										
<p>DST #1 and DST #2 sent directly to government agencies.</p>				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">NAME</th> <th style="width: 25%;">MEAS. DEPTH</th> <th style="width: 25%;">TOP TRUE VERT. DEPTH</th> </tr> </thead> <tbody> <tr> <td>Dakota</td> <td>Surface</td> <td></td> </tr> <tr> <td>Morrison</td> <td>130'</td> <td></td> </tr> <tr> <td>Bluff-Somer-</td> <td>390'</td> <td></td> </tr> <tr> <td>ville</td> <td>1008'</td> <td></td> </tr> <tr> <td>Entrada</td> <td>1215'</td> <td></td> </tr> <tr> <td>Navajo</td> <td>2150'</td> <td></td> </tr> <tr> <td>Chinle</td> <td>3110'</td> <td></td> </tr> <tr> <td>DeChelley</td> <td>3202</td> <td></td> </tr> <tr> <td>Cutler</td> <td>4136'</td> <td></td> </tr> <tr> <td>Hermosa</td> <td>6016'</td> <td></td> </tr> <tr> <td>Ismay</td> <td>6264'</td> <td></td> </tr> <tr> <td>Desert Creek</td> <td>6354'</td> <td></td> </tr> <tr> <td>Akah</td> <td></td> <td></td> </tr> </tbody> </table>	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH	Dakota	Surface		Morrison	130'		Bluff-Somer-	390'		ville	1008'		Entrada	1215'		Navajo	2150'		Chinle	3110'		DeChelley	3202		Cutler	4136'		Hermosa	6016'		Ismay	6264'		Desert Creek	6354'		Akah		
NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH																																												
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Cutler	4136'																																													
Hermosa	6016'																																													
Ismay	6264'																																													
Desert Creek	6354'																																													
Akah																																														