FILE NOTATIONS

Entered in NID File .....
Location Map Pinned .....
Card Indexed .....

Checked by Chief .....
Approval Letter 4-15-75
Disapproval Letter .....

COMPLETION DATA:

Date Well Completed .....
W..... WW..... TA.....
GW..... OS..... PA.....

Location Inspected .....
Bond released
State or Fee Land .....

LOGS FILED

Driller's Log.....
Electric Logs (No.) .....
E..... I..... Dual I Lat..... GR-N..... Micro.....
Lat Sonic GR..... Lat..... Mi-L..... Sonic.....
CBLog..... CCLog..... Others.....

Indian/green

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

5. LEASE DESIGNATION AND SERIAL NO.: I-149-IND-8838

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Aneth Unit

8. FARM OR LEASE NAME: Unit

9. WELL NO.: F325

10. FIELD AND POOL, OR WILDCAT: Aneth Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 25 T40S-R24E

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Texaco Inc. Attention: T. Bliss

3. ADDRESS OF OPERATOR: P. O. Box 2100, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NE¼ SW¼ Sec. 25
At proposed prod. zone: 1850' FSL & 1840' FWL, Sec. 25

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*:

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1840'

16. NO. OF ACRES IN LEASE: - -

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.: 1200'

19. PROPOSED DEPTH: 5810'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4786' GR

22. APPROX. DATE WORK WILL START*: September 20, 1975

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|---|---|---|---|---|
| 12-1/4" | 8-5/8" | 24# | 500' | Circulate to surface. |
| 7-7/8" | 5-1/2" | 14 & 15.5# | 5810' | Cement 600' above pay zone. |

DV collar to be run below DeChelly and cement to bottom of surface casing.

Propose to drill this infill well in order to gain optimum primary and secondary oil recovery from the Aneth Unit. Samples will be taken at 10' intervals from 5000' to TD. No cores or DSTs are planned. Logs will be run from surface casing to TD. Prospective zones will be perforated and acidized. Blowout preventer equipment will be as indicated on the attached exhibit, and will be tested at regular intervals. Necessary steps will be taken to protect the environment.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE APR 14 1975

BY C. B. Feight

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 Tommie Bliss TITLE District Superintendent DATE Feb. 10, 1975

(This space for Federal or State office use)

PERMIT NO. 43-037-30234 APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

USGS (3) OGCC (2) TB ARM Bureau of Indian Affairs The Navajo Tribe
Farmington SLC Gulf (2) Shell Superior Tenneco
USGS (1)
Durango

*See Instructions On Reverse Side

COMPANY Texaco Inc.

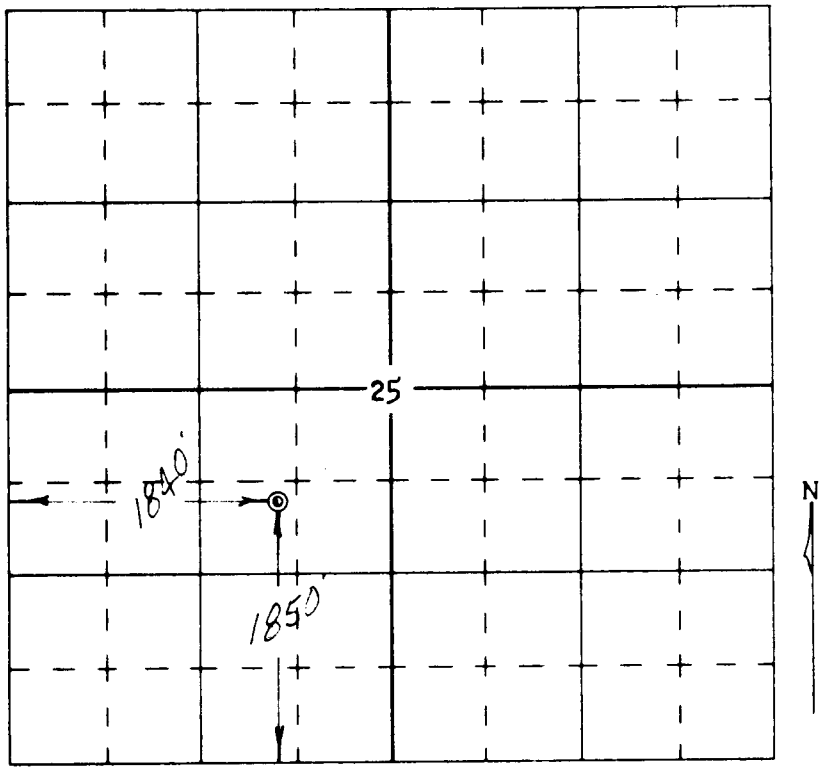
Well Name & No. ANETH UNIT WELL NO F325 Lease No.

Location 1850 feet from South line and 1840 feet from West line

Being in San Juan County, Utah

Sec. 25, T.40S., R.24E., S.L.M.

Ground Elevation 4786




Scale -- 4 inches equals 1 mile

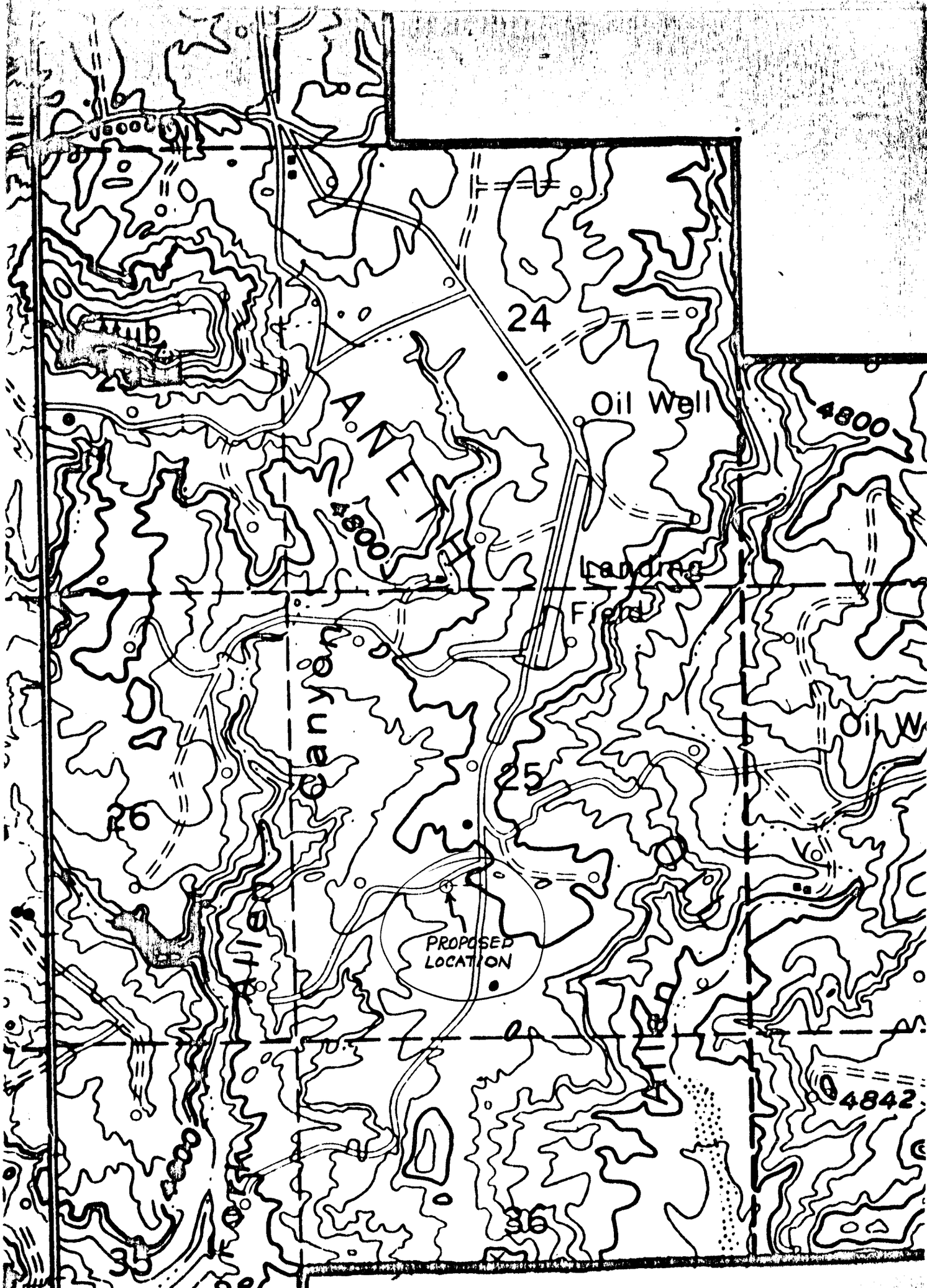
Surveyed March 1, 19 75

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.

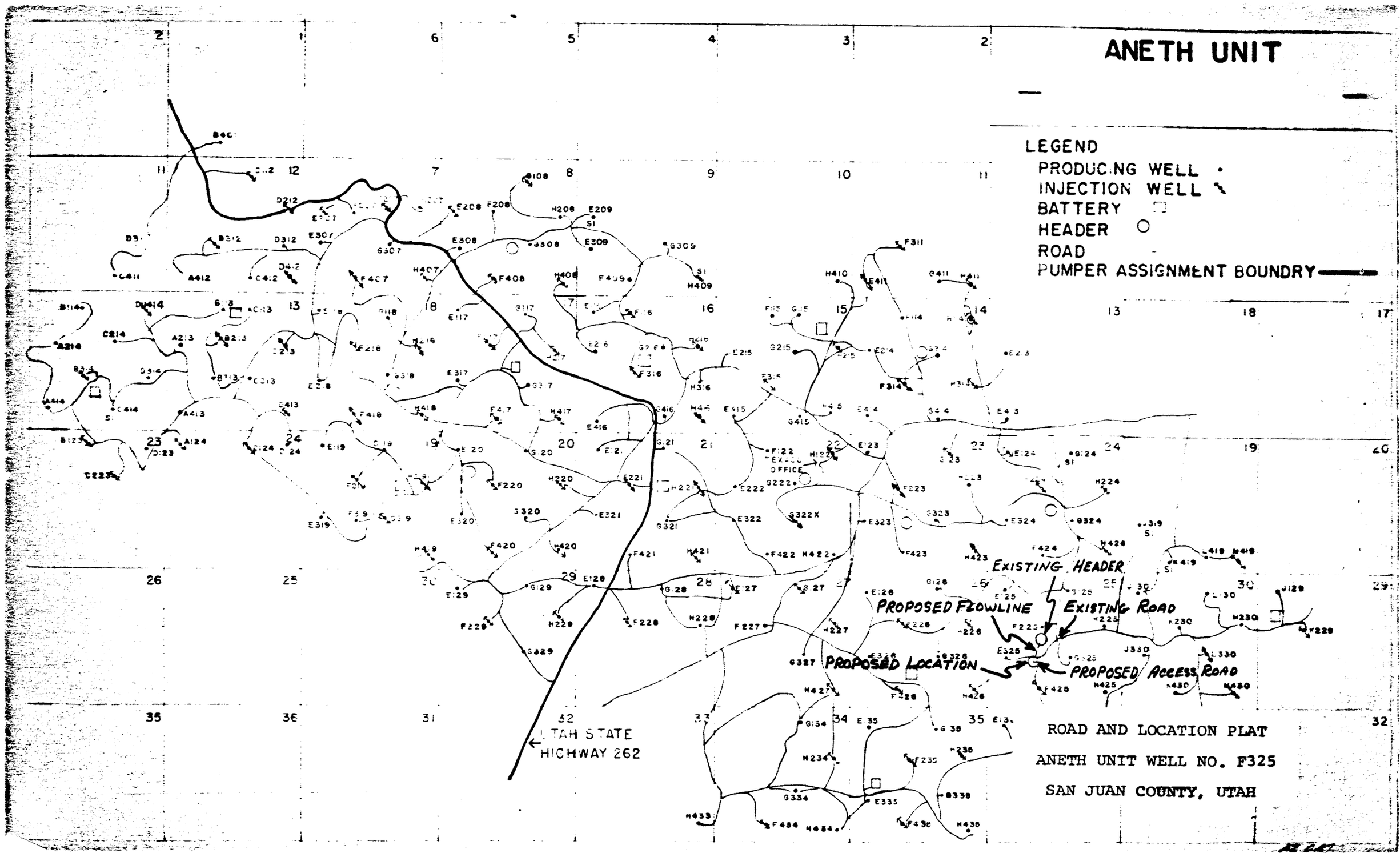
Registered Professional
Engineer and Land Surveyor.
Utah Surveyor No. 2533

Seal:

Farmington, New Mexico




ROAD AND LOCATION PLAT
ANETH UNIT WELL NO. F325
SAN JUAN COUNTY, UTAH


ANETH UNIT
LEGEND
PRODUCING WELL
INJECTION WELL
BATTERY
HEADER
ROAD
PUMPER ASSIGNMENT BOUNDRY
EXISTING HEADER
PROPOSED FLOWLINE
EXISTING ROAD
PROPOSED LOCATION
PROPOSED ACCESS ROAD
UTAH STATE HIGHWAY 262
OFFICE
ROAD AND LOCATION PLAT
ANETH UNIT WELL NO. F325
SAN JUAN COUNTY, UTAH

Minimum equipment requirements are:

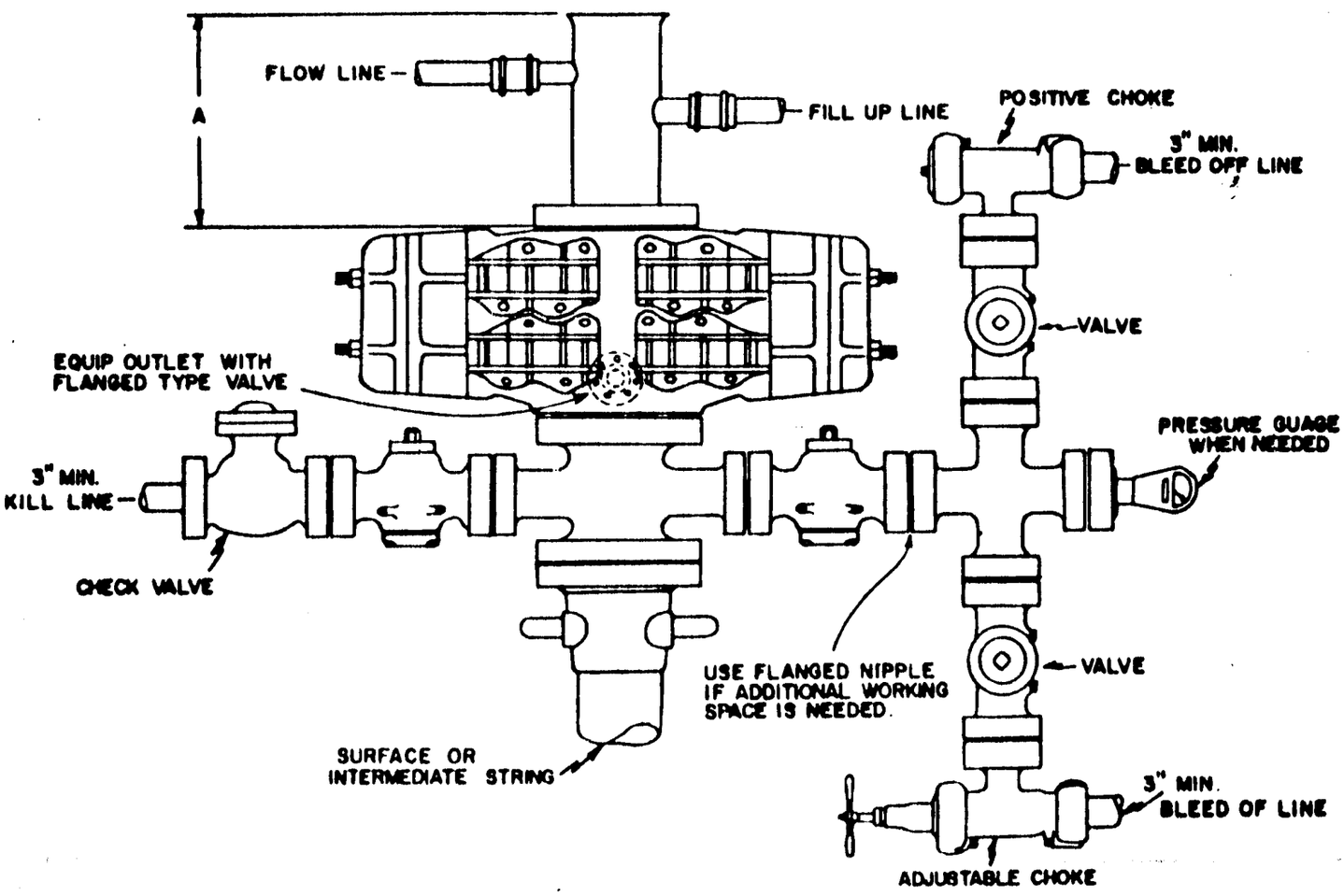
1. Blowout preventers must be capable of being operated both mechanically and hydraulically. Controls must be located so that the blowout preventer can be operated outside the drilling rig substructure. All steel tubing and connections must be used between the hydraulic controls and the blowout preventer.

2. Pressure rating of the blowout preventer and associated connections must be proportional to depth and pressure expectations. Use Figure 1 as a guide in unknown areas.

3. Distance "A" must be sufficient to accommodate a Hydril preventer if required.

4. Chokes, valves, manifold piping and kill line must be flanged and designed equal to or above the pressure rating of the blowout preventer.

5. Kelly cock must be used at all times and should be checked daily.




NOTE: BLOWOUT PREVENTER MUST HAVE DOUBLE RAMS, ONE BLIND & ONE PIPE RAM OR THE EQUIPMENT MUST CONSIST OF TWO BLOWOUT PREVENTERS, ONE EQUIPPED WITH BLIND RAMS & THE OTHER WITH PIPE RAMS
ALWAYS PLACE THE BLIND RAMS IN THE TOP PREVENTER.

ANETH UNIT WELL NO. F325

SAN JUAN COUNTY, UTAH

APPROVED

TEXACO INC
DENVER, COLORADO

BLOWOUT PREVENTER ASSEMBLY STANDARD NO. 2

DRAWN BY M.D.D. CHECKED BY E.D.E.
DATE 11-8-83 FILE
REVISED

TEXACO

PETROLEUM PRODUCTS

PRODUCING DEPARTMENT
ROCKY MOUNTAINS-U. S.
DENVER DIVISION

February 10, 1975

TEXACO INC.
P. O. BOX 2100
DENVER, COLORADO 80201

ANETH UNIT WELL NO. F325
NE¼ SW¼ SEC. 25 T40S-R24E
SAN JUAN COUNTY, UTAH
6.34

Mr. P. T. McGrath (3)
District Engineer
U. S. Geological Survey
P. O. Box 959
Farmington, New Mexico 87401

Dear Mr. McGrath:

As requested by your office, the following information is provided for the drilling of Aneth Unit Well No. F325, San Juan County, Utah:

1. SURFACE CASING: 500' of 8-5/8" OD 24# K-55 ST&C, SH.

2. CASINGHEADS: 10-3/4" x 10" Series 600, 2000# pressure rating.

3. PRODUCTION CASING: 5810' of 5-1/2" OD 14 & 15.5# K-55 ST&C, SH.

4. BLOWOUT PREVENTER: 10" Series 600 with blind and pipe rams. See attached drawing.

5. AUXILIARY EQUIPMENT:
   (a) Kelly cock will be used at all times and checked daily.
   (b) Safety sub with full opening valve for drill pipe on floor.

6. ANTICIPATED BOTTOM HOLE PRESSURE: 2500 psi.

7. DRILLING FLUID: Water and salt mud.

Very truly yours,

Tommie Bliss
District Superintendent

DRD:RB

Attach.

cc: OGCC(2)

TEXACO

PETROLEUM PRODUCTS

PRODUCING DEPARTMENT
ROCKY MOUNTAINS-U. S.
DENVER DIVISION

April 3, 1975

TEXACO INC.
P. O. BOX 2100
DENVER, COLORADO 80201

**SURFACE USE DEVELOPMENT PLAN**
**ANETH UNIT WELL NO. F325**
**NE¼ SW¼ SEC. 25 T40S-R24E**
**SAN JUAN COUNTY, UTAH**
**6.34**

Mr. P. T. McGrath (3)
District Engineer
U. S. Geological Survey
P. O. Box 959
Farmington, New Mexico 87401

Dear Mr. McGrath:

As requested by your office, the Surface Use Development Plan for Aneth Unit Well No. F325, San Juan County, Utah, is as follows:

1. Existing roads and exit to the location are shown on the attached plats.

2. New access road 200' x 30' wide will be required. The road will run east from the location to an existing road, and the surface will be compacted soil. No cuts, culverts or cattleguards will be required.

3. Offset wells to the proposed well are shown on the attached plat.

4. Lateral roads in the vicinity of the location are shown on the attached plat.

5. The flowline for subject well will run approximately 800' northeast to an existing header. See attached plat.

6. Water for drilling operations will be trucked from Texaco's fresh water supply tank, a distance of 3 miles.

7. All waste material will be contained by earthen and steel pits. Earthen pits will be subsequently back-filled and buried.

8. No separate drill campsites are proposed.

9. There are no registered airstrips in the vicinity of the location.

10. The drillsite location will be laid bare and will be approximately 250' x 250' with natural drainage to the west. Proper grading will be used to control erosion, and the drilling pad surface will be compacted soil. A plat showing the location and rig layout is attached.

11. All surfaces not used in normal well servicing and maintenance will be cleaned and graded.

12. The wellsite is slightly sloping, sandy, barren ground sparsely covered with grass.

Very truly yours,

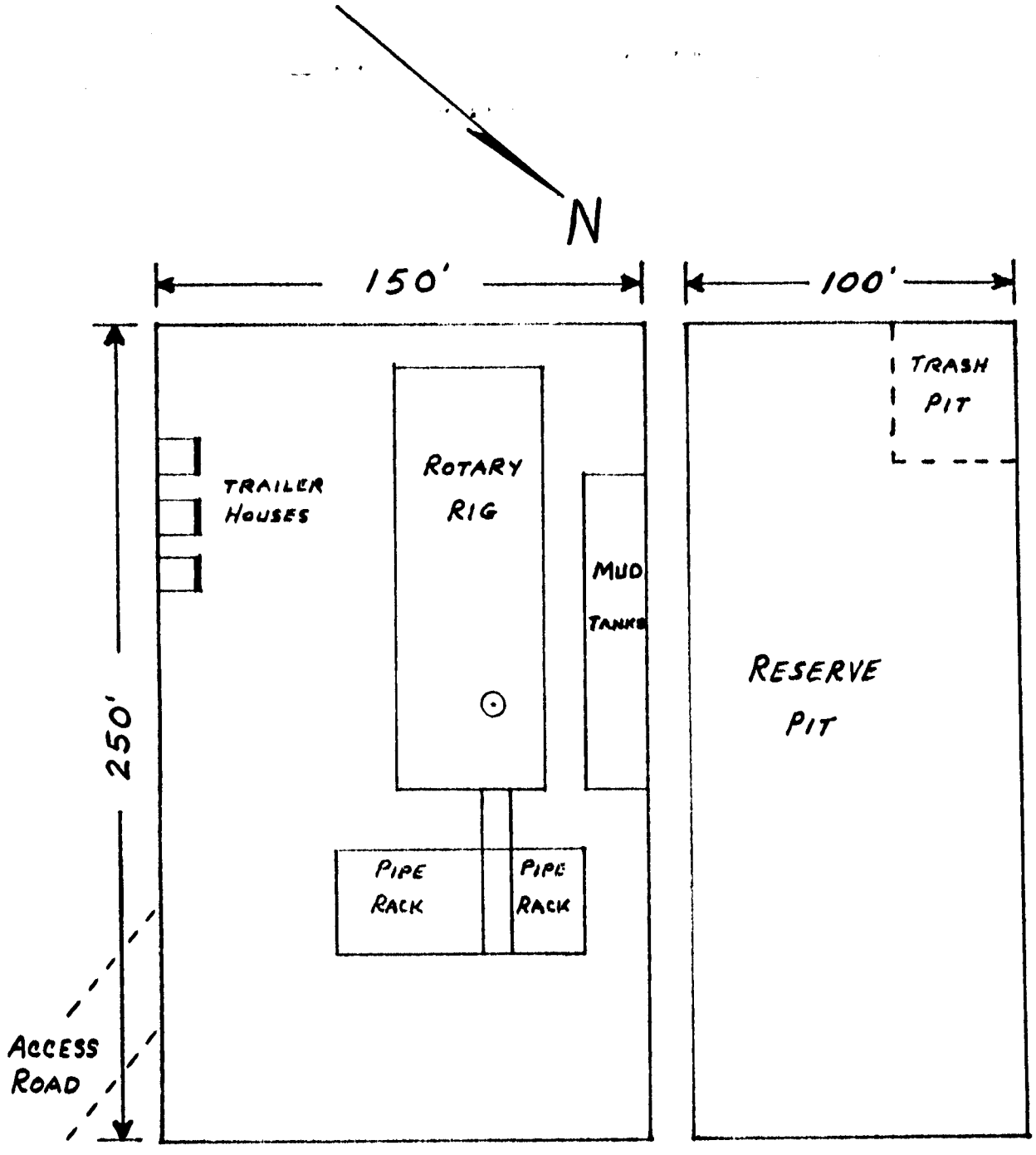
Tommie Bliss
District Superintendent

FME:RB

Attach.

cc: Board of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

U. S. Geological Survey
P. O. Box 1809
Durango, Colorado 81301




A. Drilling pad will be compacted soil.

B. Surface is slightly sloping, sandy ground sparsely covered with grass.

LOCATION AND RIG LAYOUT PLAT

ANETH UNIT WELL NO. F325

SAN JUAN COUNTY, UTAH

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

# 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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Texaco, Inc. Attention: G. L. Eaton

3. ADDRESS OF OPERATOR
P. O. Box 2100 Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NE¼ SW¼ Sec. 25
1850' FSL & 1840' FWL, Sec. 25

5. LEASE DESIGNATION AND SERIAL NO.
I-149-IND-8838

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Aneth Unit

8. FARM OR LEASE NAME
Unit

9. WELL NO.
F325

10. FIELD AND POOL, OR WILDCAT
Aneth Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25 T40S-R24E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4786' GR

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| TEST WATER SHUT-OFF | [ ] | PULL OR ALTER CASING | [ ] | WATER SHUT-OFF | [ ] | REPAIRING WELL | [ ] |
| FRACTURE TREAT | [ ] | MULTIPLE COMPLETE | [ ] | FRACTURE TREATMENT | [ ] | ALTERING CASING | [ ] |
| SHOOT OR ACIDIZE | [ ] | ABANDON* | [ ] | SHOOTING OR ACIDIZING | [ ] | ABANDONMENT* | [ ] |
| REPAIR WELL | [ ] | CHANGE PLANS | [ ] | (Other) Surface casing | | | [X] |
| (Other) | | | [ ] | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | | | |

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.) *

Spudded 10:15 AM, 8-3-75

8-4-75:
Ran 18 joints of 8-5/8" OD, 24-28#, K-55, ST&C new & used casing, set at 500'KB. Cemented with 300 sacks Class B w/ 2% CaCl & ¼# Flocele/sack. Plug down 1:00 AM, 8-4-75. Cement circulated to surface.

Tested BOP equipment and casing with 800 psi for 30 minutes each; no loss in pressure.

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

SIGNED G. L. Eaton TITLE District Superintendent DATE Aug. 6, 1975

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

USGS(3) OGCC(2) GLE ARM Navajo Tribe Gulf(2) Shell Superior
Farm. SLC Tenneco

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICA
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

# 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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Texaco, Inc. Attention: G. L. Eaton

3. ADDRESS OF OPERATOR
P. O. Box 2100 Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NE¼ SW¼ Sec. 25
1850' FSL & 1840' FWL, Sec. 25

5. LEASE DESIGNATION AND SERIAL NO.
I-149-IND-8838

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Aneth Unit

8. FARM OR LEASE NAME
Unit

9. WELL NO.
F325

10. FIELD AND POOL, OR WILDCAT
Aneth Unit

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25 T40S-R24E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4786' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| TEST WATER SHUT-OFF | [ ] | PULL OR ALTER CASING | [ ] | WATER SHUT-OFF | [ ] | REPAIRING WELL | [ ] |
| FRACTURE TREAT | [ ] | MULTIPLE COMPLETE | [ ] | FRACTURE TREATMENT | [ ] | ALTERING CASING | [ ] |
| SHOOT OR ACIDIZE | [ ] | ABANDON* | [ ] | SHOOTING OR ACIDIZING | [ ] | ABANDONMENT* | [ ] |
| REPAIR WELL | [ ] | CHANGE PLANS | [ ] | (Other) Production casing | | | [X] |
| (Other) | | | [ ] | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | | | |

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.) *

8-22-75
Ran 207 joints of 5½" OD, 14# & 15.5#, K-55, ST&C used casing, set at 5808'KB. Cemented 1st stage with 300 sacks Class B w/7# salt, 6¼# gilsonite, 1# mud kill, & 3/4 of 1% CFR-2/sack. Plug down 10:30 PM, 8-21-75. Cemented 2nd stage thru DV tool @ 2850'KB w/ 450 sacks Howco Lite, tailed in w/50 sacks regular. Plug down 11:40 PM, 8-21-75. Rig released.

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

SIGNED G. L. Eaton TITLE District Superintendent DATE Aug. 25, 1975

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

USGS(3) OGCC(2) GLE ARM Navajo Tribe Gulf(2) Shell Superior Tenneco
Farm. SLC Conoco

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

K

PF 11

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

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

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: I-149-IND-8838

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Aneth Unit

8. FARM OR LEASE NAME: Unit

9. WELL NO.: F325

10. FIELD AND POOL, OR WILDCAT: Aneth Field

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 25 T40S-R24E

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Texaco, Inc. Attention: G. L. Eaton

3. ADDRESS OF OPERATOR: P. O. Box 2100 Denver, Colorado 80201

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: NE¼ SW¼ Sec. 25
1850' FSL & 1840' FWL, Sec. 25
At top prod. interval reported below
At total depth

14. PERMIT NO.: 43-037-30237 DATE ISSUED: 4-14-75

12. COUNTY OR PARISH: San Juan 13. STATE: Utah

15. DATE SPUDDED: 8-3-75 16. DATE T.D. REACHED: 8-21-75 17. DATE COMPL. (*Ready to prod.*): 9-21-75 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 4798' KB 19. ELEV. CASINGHEAD: 4786' GR

20. TOTAL DEPTH, MD & TVD: 5808' 21. PLUG, BACK T.D., MD & TVD: 5784' 22. IF MULTIPLE COMPL., HOW MANY*: -- 23. INTERVALS DRILLED BY: → ROTARY TOOLS: Surf. to TD CABLE TOOLS: ----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Ismay 5520-5550', Desert Creek 5568-5648'.

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: F-Log, DLL, MLL, CNL-FDC-GR

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 |
|---|---|---|---|---|---|
| 8-5/8" | 24-28# | 500' | 12¼" | 300 sx. Cl. B | -- |
| 5-1/2" | 14, 15.5# | 5808' | 7-7/8 | 300 sx. Cl. B | -- |
| DV Tool | | 2850' | | 500 sx. Howco Lite & rel. | |

29. LINER RECORD

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

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|
| 2-7/8" | 5746' | -- |

31. PERFORATION RECORD (*Interval, size and number*)

| | | | |
|---|---|---|---|
| 5606-10' | 2 JSPF | 5520-24 | 2 JSPF |
| 5616-28' | " | 5544-50 | " |
| 5642-48' | " | 5568-88 | " |

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---|---|
| (See back of page) | |

33.* PRODUCTION

DATE FIRST PRODUCTION: 9-21-75 PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): Pumping - 2" rod pump WELL STATUS (*Producing or shut-in*): Producing

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD → | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|---|---|---|---|---|---|---|---|
| 9-25-75 | 24 | -- | | 248 | 322 | 104 | 1300 |

| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE → | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---|---|---|---|---|---|---|
| - | - - | | - | - | - | 40.9 |

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Sold

TEST WITNESSED BY: A. R. Marx

35. LIST OF ATTACHMENTS

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

SIGNED: G. L. Eaton TITLE: District Superintendent DATE: Sept. 30, 1975

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

USGS(3) OGCC(2) GLE ARM Navajo Tribe Gulf(2) Shell Superior Tenneco
Farm SLC Conoco Sun(2) Marathon Exxon

# 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 35.
**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.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
|---|---|---|---|
| NO CORES OR DSTS WERE TAKEN. | | | |
| Part #32: Acid, shot, fracture, cement squeeze, etc. | | | |
| | 5606 | 5648' | Acidized w/3000 gals 28% NE HCL, 2½ BPM @ 2100 psi. ISIP 1900#, 15 min. 1000#. |
| | 5568 | 5588' | Spotted 500 gals 28% NE HCL on perfs, soaked ½ hr, acidized w/ 1500 gals 28% NE HCL in 2 stages, used 1-300 gal TDA plug, 5.5 BPM @ 1000 psi. |
| | 5520 | 5550' | Acidized w/1500 gals 28% NE HCL in 2 stages, 3/4 BPM @ 2000 psi. ISIP 1750#, 15 min. SIP 750#. |

38. GEOLOGIC MARKERS

| NAME | TOP MEAS. DEPTH | TOP TRUE VERT. DEPTH |
|---|---|---|
| DeChelly | 2710' | |
| Hermosa | 4489' | |
| Ismay | 5412' | |
| Desert Creek | 5562' | |

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-780-680/VIII-238

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

072814

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

# 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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [XX] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Texaco Inc.

3. ADDRESS OF OPERATOR: P.O. Box EE, Cortez, CO. 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface
NE¼, SW¼, Sec. 25
1850' FSL & 1840' FWL, Sec. 25

5. LEASE DESIGNATION AND SERIAL NO.: I-149-IND-8838

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME: Aneth Unit

8. FARM OR LEASE NAME: Unit

9. WELL NO.: F325

10. FIELD AND POOL, OR WILDCAT: Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 25, T40S, R24E

14. PERMIT NO.: 43-037-30237

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4798 KB

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| TEST WATER SHUT-OFF | [ ] | PULL OR ALTER CASING | [ ] | WATER SHUT-OFF | [ ] | REPAIRING WELL | [ ] |
| FRACTURE TREAT | [ ] | MULTIPLE COMPLETE | [ ] | FRACTURE TREATMENT | [ ] | ALTERING CASING | [ ] |
| SHOOT OR ACIDIZE | [XX] | ABANDON* | [ ] | SHOOTING OR ACIDIZING | [ ] | ABANDONMENT* | [ ] |
| REPAIR WELL | [ ] | CHANGE PLANS | [ ] | (Other) | | | |
| (Other) | | | | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | | | |

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.)*

Texaco Proposes to open up additional Desert Creek pay zone in the subject well. The proposed procedure is as follows:

1) TOOH W/rods, pump, and tubing. Clean out to 5750 if necessary.
2) Perforate the following Desert Creek interval w/4 JSPF. 5665-5675.
3) Set packer @ 5660. Acidize perfs (5665-5675) with 2150 gals 15% HCL acid in 3 stages. Swab back load.
4) Evaluate for possible cement squeeze of Ismay perforations.
5) TIH w/rods, pump, and tubing. Return well to production.

RECEIVED
JUL 18 1986
DIVISION OF
OIL, GAS & MINING

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

SIGNED [signature] TITLE AREA SUPERINTENDENT DATE 7/15/86

(This space for Federal or State office use)

APPROVED BY _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action is required before commencing operations.

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 7-25-86
BY: John R. Baza

BLM (4) UOGCC (3) Navajo Tribe-Mobil Oil-JNH-LAA-ARM

*See Instructions on Reverse Side

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

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

081826

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

# 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 "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: I-149-IND-8838

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME: Aneth Unit

2. NAME OF OPERATOR: Texaco Inc.

8. FARM OR LEASE NAME: Unit

3. ADDRESS OF OPERATOR: P. O. Box EE Cortez, Co. 81321

9. WELL NO.: F325

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface
NE¼SW¼ Sec 25
1850' FSL & 1840' FWL

10. FIELD AND POOL, OR WILDCAT: Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 25, T40S, R24E

14. PERMIT NO.: 43-037-30237

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4798 KB

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| TEST WATER SHUT-OFF | [ ] | PULL OR ALTER CASING | [ ] | WATER SHUT-OFF | [ ] | REPAIRING WELL | [ ] |
| FRACTURE TREAT | [ ] | MULTIPLE COMPLETE | [ ] | FRACTURE TREATMENT | [ ] | ALTERING CASING | [ ] |
| SHOOT OR ACIDIZE | [ ] | ABANDON* | [ ] | SHOOTING OR ACIDIZING | [ ] | ABANDONMENT* | [ ] |
| REPAIR WELL | [ ] | CHANGE PLANS | [ ] | (Other) Perf & Acidize | | | [ ] |
| (Other) | | | | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | | | |

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.)*

Commenced work 8-5-86

MIRUSU pull rods, pump & tbg. Perforate 5665'-5675' w/4 JSPF. TIH w/tbg & pkr. Set pkr 5660' KB. Acidize 5665'-5675' w/2000 gal 15% Hcl acid w/additives in three stages using 1500 gal TDA. Flushed each stage w/ produced water. Avg 3Bpm @ 0psi. ISIP. 0 psi. swabbed well to clean up. Ran production tbg, rods & pump. Hung well on RDMOSU. Place well on pump.

RECEIVED
AUG 15 1986
DIVISION OF
OIL, GAS & MINING

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

SIGNED [signature] TITLE Area Superintendent DATE 8/12/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

BLM (4) Uogcc (3) (FARMINTON) Navajo Tribe Mobil Oil JNH LAA ARM

*See Instructions on Reverse Side

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

75

Texaco Exploration and Production Inc
Midland Producing Division

P O Box 3109
Midland TX 79702-3109

RECEIVED
MAY 28 1991
DIVISION OF
OIL GAS & MINING

May 22, 1991

Division of Oil, Gas, and Mining
Attn: Ms. Lisha Romero
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Gentlemen:

This is to advise that as a part of a reorganization of Texaco Inc., a Delaware corporation, the name of Texaco Producing Inc., a Delaware corporation and wholly owned subsidiary of Texaco Inc., has been changed to Texaco Exploration and Production Inc. Further, Texaco Exploration and Production Inc. will succeed to the rights, titles, interests and obligations of Texaco Inc.

This means that Texaco Exploration and Production Inc. will be the operator for all the oil and gas properties that were operated by Texaco Inc. and Texaco Producing Inc. We plan to abbreviate the name as Texaco E & P Inc. for purposes of submitting production reports, etc., via computer, and we suggest that for consistency you use that abbreviation also.

We have enclosed a Sundry Notice with a list of the wells which Texaco operates in Utah. Also attached is UIC Form 5 for transfer of injection authority. Please note that Texaco has two Divisions which operate wells in Utah. One is located in Denver, Colorado, and the other is in Midland, Texas. We have enclosed separate Sundry Notices and lists of wells for each Division. If you have questions concerning the Denver-operated wells, please call Roger Hadley at (303) 793-4833. If you have questions concerning the Midland-operated wells, please call Ken Miller at (915) 688-4834.

Please change any of your other records as necessary to reflect this change.

Yours very truly,

R S Lane

R. S. Lane
Assistant Division Manager

RKH/KMM-CC

Attachments

Form OGC-1b

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

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

# 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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: Texaco Exploration and Production Inc.

3. ADDRESS OF OPERATOR: P.O. Box 46510, Denver, CO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

12. COUNTY OR PARISH | 13. STATE

14. PERMIT NO. | 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

RECEIVED MAY 28 1991 DIVISION OF OIL GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| TEST WATER SHUT-OFF | ☐ | PULL OR ALTER CASING | ☐ | WATER SHUT-OFF | ☐ | REPAIRING WELL | ☐ |
| FRACTURE TREAT | ☐ | MULTIPLE COMPLETE | ☐ | FRACTURE TREATMENT | ☐ | ALTERING CASING | ☐ |
| SHOOT OR ACIDIZE | ☐ | ABANDON* | ☐ | SHOOTING OR ACIDIZING | ☐ | ABANDONMENT* | ☐ |
| REPAIR WELL | ☐ | CHANGE PLANS | ☐ | (Other) Transfer of Owner/Operator | | | ☐ |
| (Other) Transfer of Plugging Bond | | | X | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | | | |

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.)*

Texaco Inc. has assigned all its ownership rights in the subject well. As of January 1, 19 91, Texaco Inc. is no longer the Operator of subject well. The New Operator Texaco Exploration and Production Inc. hereby accepts operating responsibility and liability under its good and sufficient bond or other security accepted by the Commission for proper plugging and surface restoration of the subject well.

Former Operator:

TEXACO INC.

Signed: [signature]
Attorney-In-Fact
for Texaco Inc.

Date: 3/1/91

New Operator:

Texaco Exploration and Production Inc.

Signed: [signature]

Title: Division Manager

Date: 3/1/91

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

SIGNED [signature] TITLE Division Manager DATE 3/1/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9

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

6. Lease Designation and Serial Number

7. Indian Allottee or Tribe Name

8. Unit or Communitization Agreement

# SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other (specify)

9. Well Name and Number

2. Name of Operator
Texaco Exploration and Production Inc.

10. API Well Number

3. Address of Operator
3300 North Butler, Farmington, NM 87401

4. Telephone Number
(505) 325-4397

11. Field and Pool, or Wildcat

5. Location of Well
Footage :
QQ, Sec, T., R., M. : See Attached
County :
State : UTAH

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

**NOTICE OF INTENT**
(Submit in Duplicate)

- [ ] Abandonment
- [ ] Casing Repair
- [ ] Change of Plans
- [ ] Conversion to Injection
- [ ] Fracture Treat
- [ ] Multiple Completion
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Recompletion
- [ ] Shoot or Acidize
- [ ] Vent or Flare
- [ ] Water Shut-Off
- [X] Other Transfer of Plugging Bond

Approximate Date Work Will Start _____

**SUBSEQUENT REPORT**
(Submit Original Form Only)

- [ ] Abandonment *
- [ ] Casing Repair
- [ ] Change of Plans
- [ ] Conversion to Injection
- [ ] Fracture Treat
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Shoot or Acidize
- [ ] Vent or Flare
- [ ] Water Shut-Off
- [X] Other Change of Operator/Operator Name

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This submittal is for a change of operator (name change) for all of the attached wells. The new operator, Texaco Exploration and Production Inc., hereby accepts operating responsibility and liability under its good and sufficient bond or other security accepted by the Department for proper plugging and surface restoration of the attached wells. All contact personnel, office addresses and phone numbers will remain the same.

FORMER OPERATOR: TEXACO INC.

SIGNED: R H Lane
Attorney-in-Fact

DATE: _____

NEW OPERATOR: TEXACO EXPLORATION AND PRODUCTION INC.

SIGNED: R H Lane
Assistant Division Manager

DATE: _____

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

Name & Signature _____ Title Asst. Div. Manager Date _____

(State Use Only)

| ACCT NUM | COMPANY NAME | FLD NUM | FIELD NAME | TOWN SHIP | RANGE | SEC | QTR QTR | API NUMBER | PROD ZONE | WELL STATUS | ENTITY | WELL NAME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N0980 | TEXACO INC | 365 | GREATER ANETH | S400 | E240 | 18 | SWSW | 4303730165 | DSCR | POW | 7000 | ANETH U E418 |
| | | | | S400 | E230 | 13 | NENE | 4303730174 | DSCR | WIW | 7000 | ANETH UNIT D113 |
| | | | | S400 | E240 | 7 | SWSW | 4303730175 | DSCR | WIW | 7000 | ANETH U E407 |
| | | | | S400 | E240 | 8 | NESE | 4303730177 | DSCR | POW | 7000 | ANETH U H308 |
| | | | | S400 | E240 | 21 | NENE | 4303730183 | DSCR | POW | 7000 | ANETH U H121 |
| | | | | S400 | E240 | 21 | SWSW | 4303730188 | IS-DC | POW | 7000 | ANETH U E421 |
| | | | | S400 | E240 | 19 | NENW | 4303730197 | DSCR | POW | 7000 | ANETH U F119 |
| | | | | S400 | E240 | 11 | SESW | 4303730217 | IS-DC | POW | 7000 | ANETH U F411 |
| | | | | S400 | E240 | 23 | SWNW | 4303730219 | DSCR | POW | 7000 | ANETH U E223 |
| | | | | S400 | E240 | 23 | SWNE | 4303730226 | IS-DC | POW | 7000 | ANETH U G223 |
| | | | | S400 | E240 | 14 | NWSE | 4303730230 | DSCR | POW | 7000 | ANETH U G314 |
| | | | | S400 | E240 | 26 | NESW | 4303730232 | IS-DC | POW | 7000 | ANETH U F326 |
| | | | | S400 | E240 | 25 | SWNW | 4303730233 | IS-DC | POW | 7000 | ANETH U E225 |
| | | | | S400 | E240 | 25 | NESW | 4303730237 | IS-DC | POW | 7000 | ANETH U F325 |
| | | | | S400 | E250 | 30 | SWNE | 4303730241 | IS-DC | POW | 7000 | ANETH U L230 |
| | | | | S400 | E250 | 30 | SWSW | 4303730243 | DSCR | TA | 7000 | ANETH U J430 |
| | | | | S400 | E240 | 23 | SWSE | 4303730311 | DSCR | POW | 7000 | ANETH U G423 |
| | | | | S400 | E240 | 25 | SWSW | 4303730343 | DSCR | POW | 7000 | ANETH U E425 |
| | | | | S400 | E240 | 26 | NENE | 4303730348 | DSCR | POW | 7000 | ANETH U H126 |
| | | | | S400 | E240 | 23 | SWSW | 4303730370 | DSCR | POW | 7000 | ANETH U E423 |
| | | | | S400 | E240 | 26 | SWNW | 4303730371 | DSCR | POW | 7000 | ANETH U E226 |
| | | | | S400 | E240 | 22 | SWSE | 4303730375 | DSCR | POW | 7000 | ANETH U G422 |
| | | | | S400 | E240 | 20 | NENE | 4303730404 | IS-DC | POW | 7000 | ANETH U H120X |
| | | | | S400 | E240 | 36 | SWNE | 4303730410 | DSCR | POW | 7000 | ANETH U G236 |
| | | | | S400 | E240 | 21 | SWNE | 4303730516 | DSCR | TA | 7000 | ANETH U G221X |
| | | | | S400 | E230 | 14 | NWNE | 4303730636 | DSCR | POW | 7000 | ANETH U C114 |
| | | | | S400 | E230 | 14 | SENE | 4303730638 | DSCR | POW | 7000 | ANETH U D214 |
| | | | | S400 | E240 | 27 | NENE | 4303730643 | DSCR | POW | 7000 | ANETH U H127 |
| | | | | S400 | E250 | 30 | NENE | 4303730649 | DSCR | POW | 7000 | ANETH U M130 |
| | | | | S400 | E240 | 36 | SWNW | 4303730716 | DSCR | POW | 7000 | ANETH U E236 |
| | | 1 | WILDCAT | S280 | E040 | 25 | C-NW | 4305511273 | | PA | 99998 | THOUSAND LAKE MTN UNIT #2 |
| | | 380 | ISMAY | S400 | E260 | 16 | SWSW | 4303715544 | ISMY | POW | 7010 | ST WOOLLEY 1 (S416) |
| | | 365 | GREATER ANETH | S400 | E230 | 24 | NENE | 4303715701 | DSCR | POW | 7000 | FED B-1 (D124) |
| | | | | S400 | E230 | 12 | NESE | 4303715831 | DSCR | POW | 7000 | BURTON 43-12 (D312) |
| | | | | S400 | E230 | 23 | NENE | 4303716036 | DSCR | POW | 7000 | AW RICE 1 (D123) |
| | | | | S400 | E240 | 35 | NWNW | 4303716056 | DSCR | TA | 7000 | NAV TRB Q-3 (E135) |
| | | | | S400 | E240 | 22 | SWNW | 4303716059 | DSCR | POW | 7000 | NAV TRB D-9 (E222) |
| | | | | S400 | E240 | 19 | NESW | 4303716081 | DSCR | POW | 7000 | NAV TRB D-29(F319) |
| | | 380 | ISMAY | S400 | E260 | 21 | SWNW | 4303716172 | ISMY | TA | 7010 | NAV TR J-11 (S221) |
| | | | | S400 | E260 | 22 | SWSE | 4303716187 | ISMY | POW | 7010 | NAV J-15 (U422) |
| | | 365 | GREATER ANETH | S400 | E240 | 33 | SESE | 4303716229 | DSCR | POW | 7000 | ANETH 33-D4 (H433) |
| | | | | S400 | E240 | 7 | SWNW | 4303716283 | DSCR | WIW | 99990 | GULF-AZTEC FED 7 (ANETH |
| | | | | S400 | E240 | 18 | SWSE | 4303730132 | DSCR | POW | 7000 | ANETH U G418 |
| | | | | S400 | E240 | 17 | SWSW | 4303730134 | IS-DC | POW | 7000 | ANETH U E417 |
| | | | | S400 | E240 | 20 | NESE | 4303730154 | IS-DC | POW | 7000 | ANETH U H320 |
| | | | | S400 | E240 | 17 | SWNE | 4303730166 | IS-DC | POW | 7000 | ANETH U G217 |
| | | | | S400 | E240 | 8 | SWNE | 4303730178 | DSCR | POW | 7000 | ANETH U G208 |

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

| |
|---|
| 1- LCR/GIL ✓ |
| 2- DTS DTS |
| 3- VLC ✓ |
| 4- RJF ✓ |
| 5- RWM ✓ |
| 6- LCR ✓ |

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator XXX Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-1-91)
(TEXACO EXPLORATION AND PRODUCTION INC.)

TO (new operator) TEXACO E & P INC.
(address) 3300 NORTH BUTLER
FARMINGTON, NM 87401
BRENT HELQUIST
phone (505) 325-4397
account no. N 5700 (6-5-91)

FROM (former operator) TEXACO INC.
(address) 3300 NORTH BUTLER
FARMINGTON, NM 87401
FRANK
phone (505) 325-4397
account no. N 0980

Well(s) (attach additional page if needed):

| Name | API | Entity | Sec | Twp | Rng | Lease Type |
|---|---|---|---|---|---|---|
| (SEE ATTACHED) | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

OPERATOR CHANGE DOCUMENTATION

Lcr 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (5-28-91)

N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).

Lcr 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: #114097.

Lcr 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.

Lcr 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (6-11-91)

Lcr 6. Cardex file has been updated for each well listed above.

Lcr 7. Well file labels have been updated for each well listed above. (will update when filing)

Lcr 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.

Lcr 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

- OVER -

RATOR CHANGE WORKSHEET (CONTINUED) Init' each item when completed. Write N/A item is not applicable.

TITY REVIEW

1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

ND VERIFICATION (Fee wells only)

1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. #K0290791-4 80,000-Ins. Co. of N. America rec. 2-11-91.

2. A copy of this form has been placed in the new and former operators' bond files.

3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___. #m157448 80,000-Ins. Co. of N. America

ASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

2. Copies of documents have been sent to State Lands for changes involving State leases. 6-27-91

LMING

1. All attachments to this form have been microfilmed. Date: July 15 1991.

LING

1. Copies of all attachments to this form have been filed in each well file.

2. The original of this form and the original attachments have been filed in the Operator Change file.

MMENTS

910606 Bfm/Farmington N.M. - Duane Spencer (505) 327-5344 will follow up & call back.
910607 Bfm/Farmington - Approved 4-2-91 "Company Merger" Includes Anith Unit and Ismay Flodine Unit.
910607 St. Lands approved 4-15-91 "merger".

1/34-35

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

*SUBMIT IN TRIPLICATE*

RECEIVED
MAY 17 1993
DIVISION OF OIL GAS & MINING

5. Lease Designation and Serial No.
I-149-IND-8838

6. If Indian, Allottee or Tribe Name
Navajo Tribal

7. If Unit or CA, Agreement Designation
Aneth Unit

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

2. Name of Operator
Texaco Exp. and Prod Inc.

3. Address and Telephone No.
3300 N. Butler, Farmington N.M. 87401 (505)325-4397

8. Well Name and No.
F325

9. API Well No.
4303730237

10. Field and Pool, or Exploratory Area
Desert Creek

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1850 FSL & 1840 FWL Section 25-T40S-R24E

11. County or Parish, State
San Juan, Utah

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

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| [X] Notice of Intent | [ ] Abandonment | [ ] Change of Plans |
| | [X] Recompletion | [ ] New Construction |
| [ ] Subsequent Report | [ ] Plugging Back | [ ] Non-Routine Fracturing |
| | [ ] Casing Repair | [ ] Water Shut-Off |
| [ ] Final Abandonment Notice | [ ] Altering Casing | [ ] Conversion to Injection |
| | [ ] Other _____ | [ ] Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) |

13. 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.)*

Texaco proposes to open additional pay in the subject well. See attached procedure and wellbore diagram for pertinent details. Estimated start date is May 10, 1993.

APPROVED BY THE BOARD OF OIL, GAS AND MINING
DATE: 5-19-93
BY: JB Matthews

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

Signed _____ Title Area Manager Date 4/30/93

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

*See Instruction on Reverse Side

BLM - Farmington (5), UOGCC (3), Navajo Tribe (1), TAT JLB

**ANETH UNIT F325**
**Zone II Completion Procedure**

1. MIRUPU. TOOH w/ rods and pump. NUBOP's. Tag PBTD of 5784'. TOOH w/ tubing.

2. RU perforators. Correlate to CCL/GR run on 8/28/75. Perforate the following Desert Creek intervals with 2 JSPF. (Use premium charges and a debris free maximum OD casing gun.)

   5734' - 5745' (11')
   5682' - 5722' (40')

3. TIH w/ packer to 5680' and spot 1000 gals. of 15% HCl. Set packer and acidize DC zone II perforations as follows:

   Stage 1 - 500 gals. 15% HCl
   Stage 2 - 750 gals. TDA
   Stage 3 - 1250 gals. 15% HCl
   Stage 4 - 1250 gals. Lease water flush

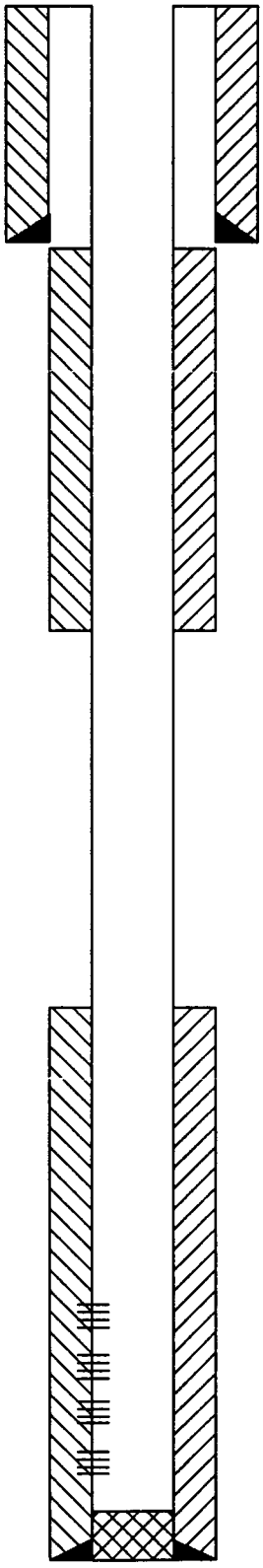
   Recover load volume to pit. RD service company. <u>Do not exceed 2800 psi. while pumping.</u>

4. TOOH w/ packer. Put well back on production and test. See attachment for rod string design, pump depth, and pump size.

JLB
attachments

# Aneth Unit F325

Location:
1850 FSL & 1840 FWL
Sec. 25 T40S R24E



8 5/8" 24# Casing
Set @ 500'
Cemented w/ 300 sxs.
Cement circ.

DV Tool
Set @ 2850'
Cemented w/ 500 sxs.
TOC @ 625'
(Est. w/50% excess)

5 1/2" 15.5# Casing
Set @ 5808'
Cemented w/ 300 sxs.
in 7 7/8" hole.

Cement top @ 4475'
(Est. w/ 50% excess)

Current Perforations:
5520'-24'
5544'-50'
5568'-88'
5606'-10'
5616'-28'
5642'-48'
5665'-75'

Proposed Perforations:
5682'-5722'
5734'-5745'

PBTD @ 5784'

TD @ 5808'

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

*SUBMIT IN TRIPLICATE*

5. Lease Designation and Serial No.: I-149-IND-8838
6. If Indian, Allottee or Tribe Name: Navajo Tribal
7. If Unit or CA, Agreement Designation: Aneth Unit
8. Well Name and No.: F325
9. API Well No.: 4303730237
10. Field and Pool, or Exploratory Area: Desert Creek
11. County or Parish, State: San Juan, Utah

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

OCT 8 1993

2. Name of Operator: Texaco Exploration & Production Inc.
3. Address and Telephone No.: 3300 N. Butler, Farmington N.M. 87401 (505)325-4397
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 1850' FSL & 1840' FWL NE/SW, Sec. 25, T40S, R24E

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

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| [ ] Notice of Intent | [ ] Abandonment | [ ] Change of Plans |
| [X] Subsequent Report | [X] Recompletion | [ ] New Construction |
| [ ] Final Abandonment Notice | [ ] Plugging Back | [ ] Non-Routine Fracturing |
| | [ ] Casing Repair | [ ] Water Shut-Off |
| | [ ] Altering Casing | [ ] Conversion to Injection |
| | [ ] Other _____ | [ ] Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) |

13. 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.)*

Texaco E. & P. Inc. has recompleted the subject well in Zone 2 of the Desert Creek. The following procedure was followed:

5-14-93. MIRUSU. TOOH with production equipment. RU and perforated Zone 2 of the Desert Creek formation at 5682'-5722' (11'), and 5734'-5745' (40') with 2 JSPF. RIH with packer and set @ 5680'. Acidized old perfs @ 5520'-5675' with 1000 gals. of 15% HCl acid. Reset packer and new perfs with 1750 gals of 15% HCl acid in two stages with 750 gals. of diverting agent in between stages. Flushed. Swabbed. RIH with production equipment. RDMOL.

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

Signed Rachel Hendricks-TAT Title Area Manager Date 9/22/93

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Tax credit 10/25/93

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

*See Instruction on Reverse Side

BLM-Farmington(5), UOGCC(3), Navajo Tribe(1), TAT, MGB, MAG TRB

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.: I-149-IND-8838

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribal

7. UNIT AGREEMENT NAME: Aneth Unit

8. FARM OR LEASE NAME: Aneth Unit

9. WELL NO.: F325

10. FIELD AND POOL, OR WILDCAT: Desert Creek

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: NE/4, SW/4 Sec. 25, T40S, T24E

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other ---

b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [X] DEEP EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other ---

2. NAME OF OPERATOR: Texaco Exploration & Production Inc.

3. ADDRESS OF OPERATOR: 3300 N. Butler, Farmington, N.M. 87401 (505)325-4397

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1850' FSL & 1840' FWL
At top prod. interval reported below: SAME
At total depth: SAME

OCT 8

14. PERMIT NO.: 4303730237 | DATE ISSUED: 4-14-75

12. COUNTY OR PARISH: San Juan County | 13. STATE: Utah

| 15. DATE SPUDDED | 16. DATE T.D. REACHED | 17. DATE COMPL. (Ready to prod.) | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* | 19. ELEV. CASINGHEAD |
|---|---|---|---|---|
| 8-03-75 | 8-21-75 | 5-14-93 | 4798' KB | 4786' GR |

| 20. TOTAL DEPTH, MD & TVD | 21. PLUG, BACK T.D., MD & TVD | 22. IF MULTIPLE COMPL., HOW MANY* | 23. INTERVALS DRILLED BY | ROTARY TOOLS | CABLE TOOLS |
|---|---|---|---|---|---|
| 5808' | 5784' | --- | → | Surf.-TD | --- |

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Top - 5682', Bottom - 5745'; Zone 2 of Desert Creek

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: No

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 |
|---|---|---|---|---|---|
| 8-5/8" | 24.0# | 500' | 12-1/4" | 300 sks | Circ. |
| 5-1/2" | 14.0 & 15.5# | 5808' | 7-7/8" | 300 sks | |
| DV Tool | | 2850' | | 500 sks | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) |
|---|---|---|---|---|
| --- | | | | |

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|
| 2-7/8" | 5701' | |

31. PERFORATION RECORD (Interval, size and number)
ZONE 2: 5682' - 5722', 5734'-5745'.
(51'), 2 JSPF

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---|---|
| 5520'-5675' | 1000 gls. 15% HCl acid |
| 5682'-5745' | 1750 gls. 15% HCl acid |

33.* PRODUCTION

DATE FIRST PRODUCTION: | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): Pumping (2-1/2" X 1-3/4" X 24') RHBC | WELL STATUS (Producing or shut-in): Producing

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|---|---|---|---|---|---|---|---|
| 5-14-93 | 24 | ---- | → | 200 | 22 | 125 | 110 |

| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---|---|---|---|---|---|---|
| 60 | 77 | → | 200 | 22 | 125 | 41 |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Sold

TEST WITNESSED BY: Jim Burnett

35. LIST OF ATTACHMENTS: Sundry

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

SIGNED [signature] TITLE Area Manager DATE 9/22/93

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

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

SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
|---|---|---|---|
| | | | |

38. GEOLOGIC MARKERS

| NAME | TOP | |
|---|---|---|
| | MEAS. DEPTH | TRUE VERT. DEPTH |
| DeChelly | 2710' | |
| Hermosa | 4489' | |
| Ismay | 5412' | |
| Desert Creek | 5562' | |

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

*SUBMIT IN TRIPLICATE*

5. Lease Designation and Serial No.: I-149-IND-8838
6. If Indian, Allottee or Tribe Name: Navajo Tribal
7. If Unit or CA, Agreement Designation: Aneth Unit
8. Well Name and No.: F325
9. API Well No.: 4303730237
10. Field and Pool, or Exploratory Area: Desert Creek
11. County or Parish, State: San Juan, Utah

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other
2. Name of Operator: Texaco Exploration & Production Inc.
3. Address and Telephone No.: 3300 N. Butler, Farmington N.M. 87401 (505)325-4397
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 1850' FSL & 1840' FWL NE/SW, Sec. 25, T40S, R24E

RECEIVED DEC 1 3 1993 DIVISION OF OIL, GAS & MINING

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

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| [ ] Notice of Intent | [ ] Abandonment | [ ] Change of Plans |
| | [ ] Recompletion | [ ] New Construction |
| [ ] Subsequent Report | [ ] Plugging Back | [ ] Non-Routine Fracturing |
| | [ ] Casing Repair | [ ] Water Shut-Off |
| [ ] Final Abandonment Notice | [ ] Altering Casing | [ ] Conversion to Injection |
| | [ ] Other _____ | [ ] Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) |

13. 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.)*

## INFORMATION FOR UTAH SEVERENCE TAX CREDIT

Texaco E. & P. Inc. has reconfigured the pumping system to optimize production.

A redesigned rod string was installed to avert rod failures, downtime and delayed production. The rod string will therefore help optimize production. Also, the pump was resized from 1-1/2" to 1-3/4", to more accurately match the pumping capacity with the well's productivity and help to optimize production.

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

Signed [signature] Title Area Manager Date 11/17/93

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

*See Instruction on Reverse Side

UOGCC(2), TAT TRB

Form 3160-5
(June 1990)

**UNITED STATES**
**DEPARTMENT OF THE INTERIOR**
**BUREAU OF LAND MANAGEMENT**

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

DEC 13 1995
DIV OF OIL, GAS & MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals

**SUBMIT IN TRIPLICATE**

5. Lease Designation and Serial No. I-149-IND-8838
6. If Indian, Alottee or Tribe Name UTE TRIBE
7. If Unit or CA, Agreement Designation ANETH UNIT
8. Well Name and Number ANETH UNIT F325
9. API Well No. 4303730237
10. Field and Pool, Exploratory Area ANETH UNIT
11. County or Parish, State SAN JUAN , UTAH

1. Type of Well: ☒ OIL WELL ☐ GAS WELL ☐ OTHER
2. Name of Operator TEXACO EXPLORATION & PRODUCTION, INC.
3. Address and Telephone No. 3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter K : 1850 Feet From The SOUTH Line and 1840 Feet From The WEST Line Section 25 Township T40S Range R24E

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| ☐ Notice of Intent | ☐ Abandonment | ☐ Change of Plans |
| ☒ Subsequent Report | ☐ Recompletion | ☐ New Construction |
| ☐ Final Abandonment Notice | ☐ Plugging Back | ☐ Non-Routine Fracturing |
| | ☐ Casing Repair | ☐ Water Shut-Off |
| | ☐ Altering Casing | ☐ Conversion to Injection |
| | ☐ OTHER: | ☐ Dispose Water |

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. 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,)*.

INFORMATION FOR UTAH SEVERANCE TAX CREDIT

TEXACO HAS INSTALLED A NEW REDESIGNED S-88 ROD STRING. THE NEW RODS WILL AVERT ROD FAILURES, DOWNTIME AND DELAYED PRODUCTION, OPTIMIZING THE PRODUCTION.

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

SIGNATURE Rachel Hinds for TAT TITLE Operating Unit Manager DATE ✓ 12/1/95

TYPE OR PRINT NAME Ted A. Tipton

Tax credit 12/2/95 ✓

(This space for Federal or State office use)

APPROVED
CONDITIONS OF APPROVAL, IF ANY: TITLE DATE

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

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT –" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No. I-149-IND-8838

6. If Indian, Alottee or Tribe Name NAVAJO TRIBE

7. If Unit or CA, Agreement Designation ANETH UNIT

1. Type of Well: ☒ OIL WELL ☐ GAS WELL ☐ OTHER

8. Well Name and Number ANETH UNIT F325

2. Name of Operator TEXACO EXPLORATION & PRODUCTION, INC.

3. Address and Telephone No. 3300 N. Butler Ave., Suit Farmington NM 87401 325-4397

9. API Well No. 4303730237

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit Letter K : 1850 Feet From The SOUTH Line and 1840 Feet From The WEST Line Section 25 Township T40S Range R24E

10. Field and Pool, Exploratory Area DESERT CREEK

11. County or Parish, State SAN JUAN , UTAH

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| ☒ Notice of Intent | ☐ Abandonment | ☐ Change of Plans |
| ☐ Subsequent Report | ☒ Recompletion | ☐ New Construction |
| ☐ Final Abandonment Notice | ☐ Plugging Back | ☐ Non-Routine Fracturing |
| | ☐ Casing Repair | ☐ Water Shut-Off |
| | ☐ Atlering Casing | ☐ Conversion to Injection |
| | ☒ OTHER: SIDETRACK | ☐ Dispose Water |
| | | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.) |

13. 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,)*.

TEXACO E. & P., INC. PROPOSES TO SIDETRACK AND DRILL HORIZONTAL SECTIONS IN THE DESERT CREEK FORMATION OF THE SUBJECT WELL.

THE PROJECTED BOTTOM HOLE LOCATION WILL BE AS FOLLOWS:

L. SOUTHEAST LATERAL #1: 701' FSL & 3426.9' FWL, SEC. 25, T40S, R24E(TVD=5647')
U. SOUTHEAST LATERAL #3: 701' FSL & 3426.9' FWL, SEC. 25, T40S, R24E(TVD=5602')

L. NORTHWEST LATERAL #2: 3012.9' FSL & 839.7' FWL, SEC. 25, T40S, R24E(TVD=5655')
U. NORTHWEST LATERAL #4: 3012.9' FSL & 839.7' FWL, SEC. 25, T40S, R24E(TVD=5592')

PLEASE SEE ATTACHED PROCEDURE AND WELLBORE DIAGRAMS.

FEB 28 1997

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

SIGNATURE Rached Hindi TITLE Senior Engineer DATE 2/24/97

TYPE OR PRINT NAME Rached Hindi

(This space for Federal or State office use)

APPROVED
CONDITIONS OF APPROVAL, IF ANY: TITLE DATE 3/4/97

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

**ANETH UNIT F-325**
**HORIZONTAL QUAD-LATERAL REENTRY**

The subject well is currently a producing well with 5-1/2" casing. The well is to be reentered and four short radius horizontal laterals are to be drilled in the Desert Creek formation using whipstocks. The existing perforations will be squeezed. Two laterals will be drilled to the northwest and two to the southeast.

WELL PREPARATION:

1) MIRSU.

2) Nipple up 3M BOPE.

3) TOH and lay down production tubing.

4) Rig up Schlumberger. Run GR-CCL from PBTD (5784') to 5000' to determine accurate location of production casing collars. Based on log, determine appropriate whipstock packer setting depth in order to mill four 10' windows in production casing from 5412' to 5422', 5442' to 5452', 5472' to 5482', and 5502' to 5512'. (Top of whipstock packer needs to be a minimum of 8' from nearest casing collar.)

5) TIH with 4-3/4" bit on 2-7/8" work string and clean out to PBTD (5784').

| | | |
|---|---|---|
| Formation tops- | Ismay: 5412' | |
| | Desert Creek: 5562' | |
| Current perforations- | Ismay: | 5520'-24', 5544'-50' |
| | Desert Creek: | 5568'- 88', 5606'-10', 5616'-28', 5642'-48', 5665'-75', 5682'-5722', 5734'-45' |
| Production Casing- | 5-1/2",14#&15#,K55,STC | Surface to 5808' |

6) TOH.

SQUEEZE EXISTING PERFORATIONS:

7) TIH with HOWCO "EZSV" cement retainer on tubing and set at 5510' (10'above existing perfs).

8) Space out tubing in neutral position and test tubing to 3000 psi. Rig up squeeze manifold. Establish rate into perforations (2 BPM), note pump-in pressure. Pressure up annulus to 500 psi., monitor casing during job.

9) Cement squeeze with 100 sx Class "G" with 0.4% D156 (fluid loss) and 0.15% D65 (dispersant) to obtain a fluid loss of 200-300 cc/30 min. (determine by lab testing) followed by 50 sx of Class "G" neat (15.8 ppg). Minimum pump time of 150 minutes at 95°F.

10) Spot cement to end of tubing. Sting into retainer. When cement reaches perfs, slow rate to < 1/2 BPM (maximum squeeze pressure = 3000 psi.). Displace cement to retainer.

11) Pull out of retainer, reverse out cement and check for flow. TOH with tubing. Rig down, move out service unit.

SET WHIPSTOCK PACKER

12) MIRU drilling rig. TIH with 4-3/4" bit, drill collars, casing scraper and drill pipe. Drill out retainer and clean out to 5600'. Make several scraper passes across whipstock packer setting depth determined in step 4) above.

13) Circulate hole clean with formation water. TOH with scraper and bit.

14) RIH with TIW gauge ring and wireline junk basket to PBTD. TOH.

15) Make up TIW wireline adaptor kit and SS-WS-BB packer for 5-1/2", 15.5# casing on Baker 20 setting tool. RIH with GR-CCL logging tool and packer on wireline. Tie-in GR-CCL log depths to depths of original open hole porosity log.

16) Set top of packer at depth determined in step 4) above.

MILL WINDOW FOR FIRST LATERAL (SE Lower)

17) RIH with TIW orientation lug and gyro. Survey alignment slot in SS-WS-BB packer.

18) TOH. Check to see if indicator pins in lug are sheared to ensure that packer alignment slot was surveyed correctly. Correct drill pipe strap to permanent datum of packer depth.

19) Make up TIW orientation stinger to 4-1/2" O.D., 3° whipstock and orient to mill window for first lateral (SE Lower) from 5502' to 5512' KOP at 125.9° azimuth, as directed by Weatherford Enterra milling supervisor on location.

20) Attach 4- 3/4"starting mill to whipstock with shear bolt. Use double lock nut or other method to ensure nut cannot back off.

21) TIH **slowly** with whipstock assembly. **DO NOT ROTATE STRING WHILE RUNNING IN HOLE.** At 5' to 10' above packer, work the string up and down to check drag.

22) Lower stinger into packer. Stinger alignment will occur automatically into packer slot.

23) Lower drill string and set down 5,000 to 10,000 lbs. to latch anchor assembly. To ensure anchor is latched, pull +/- 7,500 lb. above string weight plus drag.

24) Shear the bolt on the starting mill with downward motion. Mill 5-1/2", 15.5# casing with starting mill using light weights (1000-2000 lbs.) until approximately 18 to 24 inches of window has been cut. Circulate bottoms up and TOH.
**WARNING: Do not mill more than 18 to 24 inches as the tapered nose of the starting mill will bottom out between the whipstock body and the casing. Any further milling will be on the whipstock, not the casing.**

25) Pick up and TIH with 4 3/4" window mill, watermelon mill, and bit sub (as short as possible) . Slowly lower and ream back into the window. Continue milling window to completion (10' total length). Upon completion, ream assembly through window several times to clean the top and bottom sections. The window should be cleaned until the drill string can pass through it with no rotation and very little drag. TOH.

DRILL FIRST LATERAL (SE Lower):

(Rig up mudloggers at beginning of curve)

26) Pick up kick-off motor and test on surface. TIH with kick-off BHA as follows:
4 3/4" bit.
**Kick-off motor (with 3° bent housing)**
Float/ orientation sub.
1 jt 2 7/8" flexible monel collar.
Enough P-110, BTS tubing to reach from KOP to end of lateral.
Drill collars
2 7/8" AOH DP to surface.

27) TIH to KOP (5512'). Run gyro and orient motor to 125.9° azimuth.

28) Break circulation and establish off bottom pressure at operating flow rates. Slowly lower motor to bottom, adjusting toolface as necessary to compensate for reactive torque. Drill curve section to target depth of 5648' TVD for start of lateral. Planned build rate is 42°/100' and radius of 136'.

29) Circulate hole clean. TOH with curve motor.

30) TIH with lateral motor BHA.

31) Drill the horizontal lateral (1959') adjusting tool face as needed to the target. The end of the horizontal target depth is 5647' TVD. There is a window around the target line which the well path is to stay within. While drilling the lateral section, run sweeps of 5 bbls. water, 3 bbls prehydrated gel (90+ viscosity), and 1 gallon polymer. If necessary, mud up with starch/polymer mud.

32) At TD circulate hole clean with water and TOH.

33) TIH with whipstock hook on drill string and engage whipstock. Retrieve whipstock and anchor.

MILL WINDOW FOR SECOND LATERAL (NW Lower)

34) Make up TIW orientation stinger to second 4-1/2" O.D., 3° whipstock and orient to mill window for second lateral (NW Lower) from 5472' to 5482' KOP at 319.3° azimuth, as directed by Weatherford Enterra milling supervisor on location.

35) Repeat steps 20) through 25) above to mill window for second lateral.

DRILL SECOND LATERAL (NW Lower):

36) Repeat steps 26) through 33) above to drill second lateral as follows:

| | |
|---|---|
| KOP | 5482' |
| Lateral Direction | 319.3° |
| Build Rate | 30°/100' |
| Radius | 189' |
| Beginning Target Depth | 5671' TVD |
| Ending Target Depth | 5655' TVD |
| Lateral Length | 1534' |

MILL WINDOW FOR THIRD LATERAL (SE Upper)

37) Make up TIW orientation stinger to third 4-1/2" O.D., 3° whipstock and orient to mill window for third lateral (SE Upper) from 5442' to 5452' KOP at 125.9° azimuth, as directed by Weatherford Enterra milling supervisor on location.

38) Repeat steps 20) through 25) above to mill window for third lateral.

DRILL THIRD LATERAL (SE Upper):

39) Repeat steps 26) through 33) above to drill third lateral as follows:

| | |
|---|---|
| KOP | 5452' |
| Lateral Direction | 125.9° |
| Build Rate | 43°/100' |
| Radius | 134' |
| Beginning Target Depth | 5586' TVD |
| Ending Target Depth | 5602' TVD |
| Lateral Length | 1959' |

MILL WINDOW FOR FOURTH LATERAL (NW Upper)

40) Make up TIW orientation stinger to fourth 4-1/2" O.D., 3° whipstock and orient to mill window for fourth lateral (NW Upper) from 5412' to 5422' KOP at 319.3° azimuth, as directed by Weatherford Enterra milling supervisor on location.

41) Repeat steps 20) through 25) above to mill window for fourth lateral.

DRILL FOURTH LATERAL (NW Upper):

42) Repeat steps 26) through 31) above to drill fourth lateral as follows:

| | |
|---|---|
| KOP | 5422' |
| Lateral Direction | 319.3° |
| Build Rate | 35°/100' |
| Radius | 164' |
| Beginning Target Depth | 5586' TVD |
| Ending Target Depth | 5592' TVD |
| Lateral Length | 1534' |

43) TIH with 4 3/4" bit and lateral motor with 2° bent housing and clean out first three laterals to TD with water. Confirm the drill string is in each lateral by TD measurement.

44) TOH with drill pipe. Set retrievable bridge plug in 5-1/2" casing. RDMORT. Subsequent completion program to be issued.

2/20/97

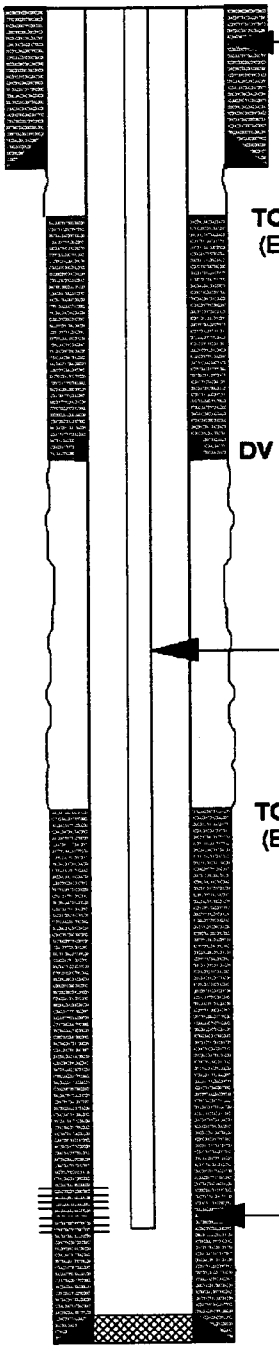
# ANETH UNIT No. F325
## Current Conditions

**LOCATION:**
1850' FSL & 1840' FWL
NE/SW, Sec. 25, T40S, R24E
San Juan County, Utah

**SPUD DATE:** 8/03/75
**COMPL. DATE:** 9/21/75
**ELEVATION:** 4786' GR
4798' KB

**FORMATION TOPS:**
DeChelly 2710'
Hermosa 4489'
Ismay 5412'
Desert Creek 5562'

**PERFORATIONS:**
5520'-24'
5544'-50'
5568'-88'
5606'-10'
5616'-28'
5642'-48'
5665'-75'
5682'-5722'
5734'-45'



**8-5/8", 24# CSG**
**Set @ 500' in 12-1/4" Hole**
**w/ 300 SXS CMT**
**Cement Circ.**

**TOC @ 625'**
(Est. w/ 50% Excess)

**DV Tool @ 2850'**

**2-7/8" TBG @ 5699'**

**TOC @ 4475'**
(Est. w/ 50% Excess)

**5-1/2", 14 & 15.5# CSG**
**Set @ 5808' in 7-7/8" Hole**
**1st Stage CMT w/ 300 SXS**
**DV Tool @ 2850'**
**2nd Stage CMT w/ 500 SXS**

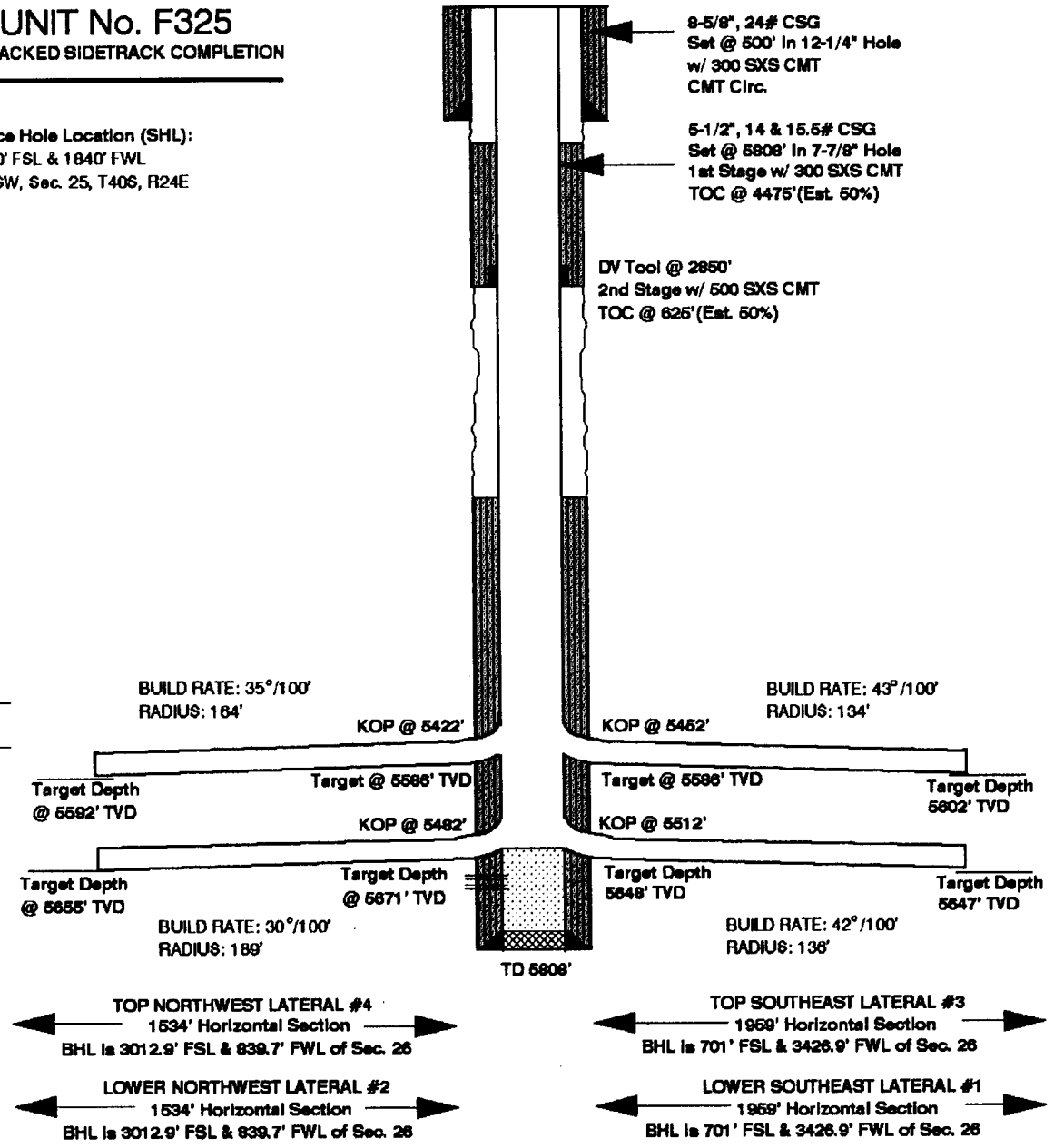
**PBTD @ 5784'**
**TD @ 5808'**

2/20/97

# ANETH UNIT No. F325

**PROPOSED DUAL STACKED SIDETRACK COMPLETION**

**Surface Hole Location (SHL):**
1850' FSL & 1840' FWL
NE/SW, Sec. 25, T40S, R24E



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/27/97

API NO. ASSIGNED: 43-037-30237

WELL NAME: ANETH UNIT F 325 MULTI-LEG
OPERATOR: TEXACO EXPL & PROD (N5700)

PROPOSED LOCATION:
NESW 25 - T40S - R24E
SURFACE: 1850-FSL-1840-FEL
BOTTOM: 0701-FSL-3427-FWL
SAN JUAN COUNTY
GREATER ANETH FIELD (365)

LEASE TYPE: IND
LEASE NUMBER: I-149-IND-8838

PROPOSED PRODUCING FORMATION: DSCR

| INSPECT LOCATION BY: / / | | |
|---|---|---|
| TECH REVIEW | Initials | Date |
| Engineering | | |
| Geology | | |
| Surface | | |

RECEIVED AND/OR REVIEWED:

✓ Plat
✓ Bond: Federal [✓] State [] Fee []
(Number _____)
✓ Potash (Y/N)
✓ Oil shale (Y/N)
✓ Water permit
(Number NAVAJO ALLOCATION)
N RDCC Review (Y/N)
(Date: _____)

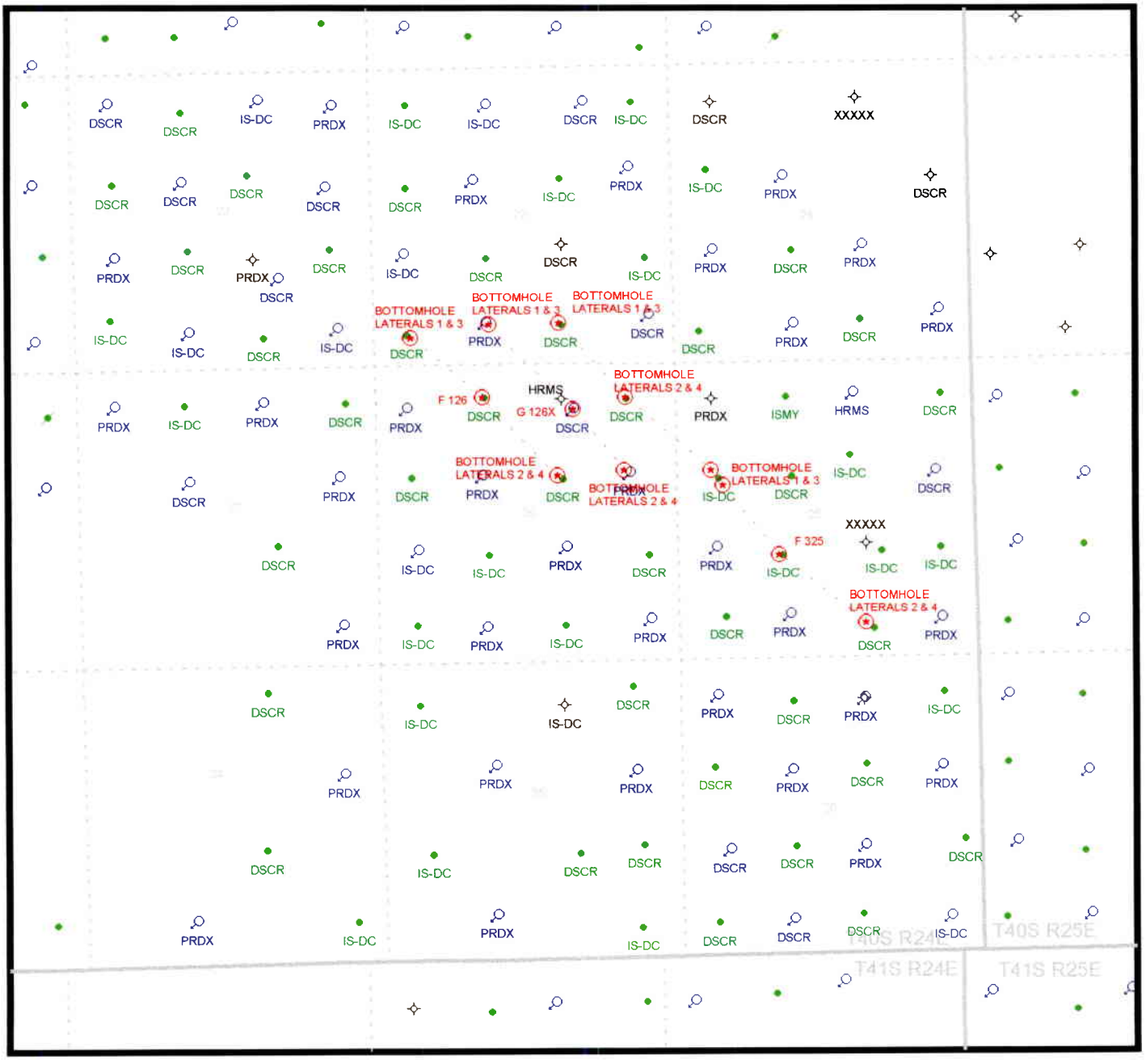
LOCATION AND SITING:

✓ R649-2-3. Unit: ANETH UNIT
___ R649-3-2. General.
___ R649-3-3. Exception.
___ Drilling Unit.
Board Cause no: _____
Date: _____

COMMENTS: _____

STIPULATIONS: _____

OPERATOR: TEXACO (N5700)
FIELD: GREATER ANETH (365)
SEC, TWP, RNG: 25 & 26 T40S, R24E
COUNTY: SAN JUAN
UAC: R649-2-3




PREPARED:
DATE: 3-MAR-97

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

March 4, 1997

Texaco Exploration & Production, Inc.
3300 N. Butler Avenue
Farmington, New Mexico 87401

Re: Aneth Unit F325 (Re-entry) Well, 1850' FSL, 1840' FWL, NE SW, Sec. 25, T. 40 S., R. 24 E., San Juan 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 re-enter and 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 43-037-30237.

Sincerely,

R. J. Firth
Associate Director

lwp
Enclosures
cc: San Juan County Assessor
Bureau of Land Management, Moab District Office

Operator: Texaco Exploration & Production, Inc.

Well Name & Number: Aneth Unit F325 (Re-entry)

API Number: 43-037-30237

Lease: I-149-IND-8838

Location: NE SW Sec. 25 T. 40 S. R. 24 E.

## Conditions of Approval

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

2. Notification Requirements
   Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

   Notify the Division prior to commencing operations to plug and abandon the well. Contact R. J. Firth (801)538-5274 or Mike Hebertson at (801)538-5333.

3. Reporting Requirements
   All required reports, forms and submittals shall 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. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, submittal of a complete angular deviation and directional survey report is required.

Form 3160-4
(October 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0137
Expires: December 31, 1991

SUBMIT ORIGINAL WITH 5 COPIES

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. Type of Well: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

1b. Type of Completion: NEW WELL ☐ WORK OVER ☑ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

2. Name of Operator: TEXACO EXPLORATION & PRODUCTION, INC.

3. Address and Telephone No.: 3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At Surface
Unit Letter K : 1850 Feet From The SOUTH Line and 1840 Feet From The WEST Line
At proposed prod. zone

At Total Depth

5. Lease Designation and Serial No.: I-149-IND-8838

6. If Indian, Alottee or Tribe Name: NAVAJO TRIBE

7. If Unit or CA, Agreement Designation:

8. Well Name and Number: ANETH UNIT F325

9. API Well No.: 4303730237

10. Field and Pool, Exploratory Area: DESERT CREEK

11. SEC., T., R., M., or BLK. and Survey or Area: Sec. 25, Township T40S, Range R24E

14. Permit No. | Date Issued

12. County or Parish: SAN JUAN

13. State: UTAH

15. Date Spudded: 8/3/75 9-9-97

16. Date T.D. Reached: 8/21/75

17. Date Compl. (Ready to Prod.): 9/21/75 10-31-97

18. Elevations (Show whether DF,RT, GR, etc.): 4786' GR

19. Elev. Casinhead:

20. Total Depth, MD & TVD: 5808

21. Plug Back T.D., MD & TVD: 5784

22. If Multiple Compl., How Many*

23. Intervals Drilled By --> Rotary Tools | CableTools

24. Producing Interval(s), Of This Completion -- Top, Bottom, Name (MD and TVD)*
4 HORIZONTAL LATERELS -- SEE SUBS. SUNDRY IS-DC

25. Was Directional Survey Made: YES

26. Type Electric and Other Logs Run

27. Was Well Cored: NO

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

| CASING SIZE & GRADE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENT RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 8-5/8" | 24-28# | 500' | 12-1/4" | 300 SX. | |
| 5-1/2" | 14-15.5# | 5808' | 7-7/8" | 300 SX. | |
| DV TOOL | | 2850' | | 500 SX. | |
| | | | | | |
| | | | | | |

29. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|---|---|---|---|---|
| NONE | | | | |
| | | | | |

30. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|---|---|---|
| 2-7/8" | 5383' | |
| | | |

31. Perforation record (interval, size, and number)
4 HORIZONTAL LATERALS -- SEE SUBS. SUNDRY

RECEIVED
DEC 11 1997
DIV. OF OIL, GAS & MINING

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

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|---|---|
| 4-LATERALS | SEE SUBS. SUNDRY |
| | |
| | |
| | |

33. PRODUCTION

Date First Production: 10/31/97
Production Method (Flowing, gas lift, pumping - size and type pump): PUNPING-SUB PUMP
Well Status (Prod. or Shut-in): PRODUCING

| Date of Test | Hours tested | Choke Size | Prod'n For Test Period | Oil - Bbl. | Gas - MCF | Water - Bbl. | Gas - Oil Ratio |
|---|---|---|---|---|---|---|---|
| 11/6/97 | 24 | ------ | | 937 | 561 | 1056 | 598:1 |

| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API -(Corr.) |
|---|---|---|---|---|---|---|
| ------ | ------ | | 937 | 561 | 1056 | 43 |

34. Disposition of Gas (Sold, used for fuel, vented, etc.): SOLD
Test Witnessed By: ELMORE

35. List of Attachments
SUBS. REPORT, DEVIATION REPORTS

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

SIGNATURE _____ TITLE Senior Engineer DATE _____

TYPE OR PRINT NAME Rached Hindi

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents therof; cored intervals; and all drill-stem, tests including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS,ETC. |
|---|---|---|---|
| | | | |

38. GEOLOGIC MARKERS

| NAME | TOP | |
|---|---|---|
| | MEAS. DEPTH | TRUE VERT. DEPTH |
| DeChelly | 2710' | |
| Hermosa | 4489' | |
| Ismay | 5412' | |
| Desert Creek | 5562' | |

Form 3160-5
(June 1990)

**UNITED STATES**
**DEPARTMENT OF THE INTERIOR**
**BUREAU OF LAND MANAGEMENT**

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals

**SUBMIT IN TRIPLICATE**

5. Lease Designation and Serial No. I-149-IND-8838
6. If Indian, Alottee or Tribe Name NAVAJO TRIBE
7. If Unit or CA, Agreement Designation ANETH UNIT
8. Well Name and Number ANETH UNIT F325
9. API Well No. 4303730237
10. Field and Pool, Exploratory Area DESERT CREEK
11. County or Parish, State SAN JUAN , UTAH

1. Type of Well: ☑ OIL WELL ☐ GAS WELL ☐ OTHER
2. Name of Operator TEXACO EXPLORATION & PRODUCTION, INC.
3. Address and Telephone No. 3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter K : 1850 Feet From The SOUTH Line and 1840 Feet From The WEST Line Section 25 Township T40S Range R24E

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| ☐ Notice of Intent | ☐ Abandonment | ☐ Change of Plans |
| ☑ Subsequent Report | ☑ Recompletion | ☐ New Construction |
| ☐ Final Abandonment Notice | ☐ Plugging Back | ☐ Non-Routine Fracturing |
| | ☐ Casing Repair | ☐ Water Shut-Off |
| | ☐ Atlering Casing | ☐ Conversion to Injection |
| | ☑ OTHER: SIDETRACK | ☐ Dispose Water |
| | | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.) |

13. 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,)*.

TEXACO E. & P., INC. HAS COMPLETED SIDETRACKING AND DRILLING QUAD LATERAL HORIZONTAL SECTIONS IN THE DESERT CREEK FORMATION OF THE SUBJECT WELL.

9/9/97 MIRUSU. SET PACKER @ 5507'
9/9 - 10/5/97 RU AND MILLED WINDOW FOR LEG #1 FROM 5460' - 5467', LEG #2 FROM 5436'-5442', LEG #3 FROM 5426'-5436', LEG #4 FROM 5413'-5422'.

BOTTOM HOLE LOCATIONS WILL BE AS FOLLOWS:

L. SOUTHEAST LATERAL #1: 947' FSL & 3089' FWL, SEC. 25, T40S, R24E (MD=7150')(TVD=5652')
U. SOUTHEAST LATERAL #3: 702' FSL & 3432' FWL, SEC. 25, T40S, R24E(MD=7517')(TVD=5599')
L. NORTHWEST LATERAL #2: 2886' FSL & 951' FWL, SEC. 25, T40S, R24E(MD=6900)(TVD=5649')
U. NORTHWEST LATERAL #4: 3013' FSL & 839' FWL, SEC. 25, T40S, R24E(MD=7018)(TVD=5587')

RECEIVED
DEC 11 1997
DIV. OF OIL, GAS & MINING

10/12 - 10/26/97 RU & ACIDIZED - LEG #1 WITH 5150 GALS 20% HCL & 15400 GALS 20% SXE, Leg #2 WITH 4300 GALS 20% HCL & 12950 GALS 20% SXE, LEG #3 WITH 6850 GALS 20% HCL AND 20550 GALS 20% SXE, LEG #4 WITH 5000 GALS 20% HCL & 14920 GALS 20% SXE

10/28/97 TIH WITH 171 JTS OF 2 7/8' TBG. AND SET SUB PUMP @ 5383'. PUT ON PRODUCTION TEST
10/31/97 TOOK OFF TEST & PUT ON PRODUCTION

14. I hereby certify that the foregoing is true and correct.
SIGNATURE Rached Hindi TITLE Senior Engineer DATE 11/26/97
TYPE OR PRINT NAME Rached Hindi

(This space for Federal or State office use)

APPROVED
CONDITIONS OF APPROVAL, IF ANY: TITLE DATE

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

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #1 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1541.45' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.15° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/16/97 | TIME: 1:44 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| TIE | 5400 | 0.4 | 103.4 | 5399.65 | 20.77 | -39.47 | -44.15 | 0.28 | S 76.6 E | 6.32 |
| 1 | 5470 | 3.8 | 126.0 | 5469.59 | 19.35 | -37.37 | -41.62 | 4.94 | S 54.0 E | 6.24 |
| 2 | 5475 | 5.0 | 123.0 | 5474.58 | 19.14 | -37.06 | -41.24 | 24.43 | S 57.0 E | 6.23 |
| 3 | 5480 | 6.4 | 117.0 | 5479.55 | 18.89 | -36.63 | -40.75 | 30.39 | S 63.0 E | 6.17 |
| 4 | 5485 | 6.5 | 114.4 | 5484.52 | 18.65 | -36.12 | -40.19 | 6.17 | S 65.6 E | 6.07 |
| 5 | 5490 | 7.8 | 111.9 | 5489.48 | 18.41 | -35.55 | -39.59 | 26.73 | S 68.1 E | 5.93 |
| 6 | 5495 | 9.7 | 109.3 | 5494.42 | 18.14 | -34.83 | -38.85 | 38.81 | S 70.7 E | 5.73 |
| 7 | 5500 | 11.4 | 106.8 | 5499.34 | 17.86 | -33.96 | -37.98 | 35.20 | S 73.2 E | 5.45 |
| 8 | 5505 | 13.2 | 104.2 | 5504.23 | 17.57 | -32.94 | -36.99 | 37.66 | S 75.8 E | 5.08 |
| 9 | 5510 | 15.1 | 101.6 | 5509.07 | 17.30 | -31.75 | -35.86 | 40.06 | S 78.4 E | 4.60 |
| 10 | 5515 | 17.0 | 99.1 | 5513.88 | 17.06 | -30.39 | -34.62 | 40.43 | S 80.9 E | 4.00 |
| 11 | 5520 | 19.4 | 96.5 | 5518.63 | 16.85 | -28.84 | -33.24 | 50.66 | S 83.5 E | 3.26 |
| 12 | 5525 | 21.3 | 101.1 | 5523.32 | 16.58 | -27.12 | -31.69 | 49.65 | S 78.9 E | 2.47 |
| 13 | 5530 | 23.0 | 105.1 | 5527.95 | 16.15 | -25.29 | -29.95 | 45.43 | S 74.9 E | 1.75 |
| 14 | 5535 | 24.9 | 107.1 | 5532.52 | 15.59 | -23.34 | -28.04 | 41.32 | S 72.9 E | 1.06 |
| 15 | 5540 | 26.6 | 108.4 | 5537.02 | 14.92 | -21.27 | -25.98 | 35.83 | S 71.6 E | 0.38 |
| 16 | 5545 | 28.3 | 108.1 | 5541.46 | 14.20 | -19.08 | -23.78 | 34.11 | S 71.9 E | -0.31 |
| 17 | 5550 | 30.7 | 108.2 | 5545.81 | 13.43 | -16.74 | -21.44 | 48.01 | S 71.8 E | -1.07 |
| 18 | 5555 | 32.7 | 107.9 | 5550.06 | 12.62 | -14.24 | -18.94 | 40.12 | S 72.1 E | -1.87 |
| 19 | 5560 | 34.6 | 108.8 | 5554.22 | 11.75 | -11.61 | -16.30 | 39.29 | S 71.2 E | -2.71 |
| 20 | 5565 | 36.4 | 109.6 | 5558.29 | 10.79 | -8.87 | -13.52 | 37.18 | S 70.4 E | -3.54 |
| 21 | 5570 | 37.9 | 111.2 | 5562.28 | 9.74 | -6.04 | -10.61 | 35.68 | S 68.8 E | -4.35 |
| 22 | 5575 | 39.3 | 112.6 | 5566.19 | 8.57 | -3.15 | -7.58 | 33.00 | S 67.4 E | -5.10 |
| 23 | 5580 | 40.8 | 114.4 | 5570.01 | 7.29 | -0.20 | -4.44 | 37.90 | S 65.6 E | -5.79 |
| 24 | 5585 | 42.4 | 116.2 | 5573.75 | 5.87 | 2.80 | -1.17 | 39.94 | S 63.8 E | -6.40 |
| 25 | 5590 | 44.0 | 117.8 | 5577.40 | 4.32 | 5.85 | 2.21 | 38.78 | S 62.2 E | -6.93 |
| 26 | 5595 | 45.5 | 119.7 | 5580.95 | 2.62 | 8.94 | 5.70 | 40.19 | S 60.3 E | -7.37 |
| 27 | 5600 | 47.1 | 121.4 | 5584.40 | 0.79 | 12.05 | 9.30 | 40.35 | S 58.6 E | -7.70 |
| 28 | 5605 | 48.6 | 123.0 | 5587.76 | -1.19 | 15.18 | 13.00 | 38.25 | S 57.0 E | -7.94 |
| 29 | 5610 | 50.0 | 124.6 | 5591.02 | -3.30 | 18.33 | 16.79 | 37.05 | S 55.4 E | -8.08 |
| 30 | 5615 | 52.3 | 127.1 | 5594.16 | -5.58 | 21.49 | 20.68 | 60.26 | S 52.9 E | -8.08 |
| 31 | 5620 | 54.0 | 128.8 | 5597.16 | -8.04 | 24.64 | 24.68 | 43.54 | S 51.2 E | -7.94 |
| 32 | 5625 | 55.4 | 129.5 | 5600.04 | -10.62 | 27.81 | 28.75 | 30.24 | S 50.5 E | -7.71 |
| 33 | 5630 | 56.6 | 128.9 | 5602.84 | -13.24 | 31.02 | 32.89 | 25.98 | S 51.1 E | -7.47 |
| 34 | 5635 | 57.3 | 127.1 | 5605.57 | -15.82 | 34.32 | 37.08 | 33.26 | S 52.9 E | -7.31 |
| 35 | 5640 | 58.4 | 125.3 | 5608.23 | -18.32 | 37.74 | 41.31 | 37.59 | S 54.7 E | -7.29 |
| 36 | 5645 | 59.9 | 126.0 | 5610.79 | -20.82 | 41.23 | 45.60 | 32.32 | S 54.0 E | -7.31 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #1 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1541.45' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.15° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/16/97 | TIME: 1:44 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 37 | 5650 | 61.0 | 127.6 | 5613.26 | -23.42 | 44.71 | 49.95 | 35.48 | S 52.4 E | -7.24 |
| 38 | 5655 | 62.0 | 129.6 | 5615.64 | -26.16 | 48.14 | 54.34 | 40.44 | S 50.4 E | -7.03 |
| 39 | 5660 | 63.6 | 130.9 | 5617.93 | -29.04 | 51.54 | 58.77 | 39.48 | S 49.1 E | -6.70 |
| 40 | 5665 | 64.8 | 129.9 | 5620.11 | -31.96 | 54.96 | 63.26 | 30.00 | S 50.1 E | -6.34 |
| 41 | 5670 | 66.1 | 128.7 | 5622.18 | -34.84 | 58.48 | 67.80 | 33.95 | S 51.3 E | -6.07 |
| 42 | 5675 | 67.2 | 128.2 | 5624.16 | -37.69 | 62.08 | 72.39 | 23.84 | S 51.8 E | -5.87 |
| 43 | 5680 | 67.8 | 129.0 | 5626.08 | -40.57 | 65.69 | 77.00 | 19.04 | S 51.0 E | -5.65 |
| 44 | 5685 | 68.9 | 129.6 | 5627.92 | -43.52 | 69.28 | 81.64 | 24.67 | S 50.4 E | -5.38 |
| 45 | 5690 | 69.5 | 129.5 | 5629.70 | -46.49 | 72.89 | 86.30 | 12.14 | S 50.5 E | -5.08 |
| 46 | 5695 | 70.4 | 129.6 | 5631.41 | -49.48 | 76.51 | 90.99 | 18.10 | S 50.4 E | -4.78 |
| 47 | 5700 | 71.4 | 129.4 | 5633.05 | -52.49 | 80.16 | 95.71 | 20.35 | S 50.6 E | -4.48 |
| 48 | 5705 | 72.6 | 129.4 | 5634.59 | -55.51 | 83.83 | 100.45 | 24.00 | S 50.6 E | -4.19 |
| 49 | 5710 | 73.5 | 129.3 | 5636.05 | -58.54 | 87.53 | 105.23 | 18.10 | S 50.7 E | -3.91 |
| 50 | 5715 | 74.6 | 129.4 | 5637.43 | -61.59 | 91.25 | 110.03 | 22.08 | S 50.6 E | -3.62 |
| 51 | 5720 | 75.6 | 129.3 | 5638.71 | -64.65 | 94.98 | 114.85 | 20.09 | S 50.7 E | -3.33 |
| 52 | 5725 | 76.6 | 129.2 | 5639.91 | -67.72 | 98.74 | 119.69 | 20.09 | S 50.8 E | -3.04 |
| 53 | 5730 | 77.6 | 129.3 | 5641.03 | -70.81 | 102.52 | 124.56 | 20.09 | S 50.7 E | -2.76 |
| 54 | 5740 | 79.8 | 128.9 | 5642.99 | -76.99 | 110.12 | 134.35 | 22.35 | S 51.1 E | -2.21 |
| 55 | 5750 | 81.8 | 128.6 | 5644.59 | -83.17 | 117.82 | 144.21 | 20.22 | S 51.4 E | -1.72 |
| 56 | 5760 | 83.9 | 128.7 | 5645.83 | -89.36 | 125.57 | 154.12 | 21.02 | S 51.3 E | -1.24 |
| 57 | 5770 | 86.3 | 128.9 | 5646.69 | -95.61 | 133.34 | 164.07 | 24.08 | S 51.1 E | -0.74 |
| 58 | 5780 | 88.5 | 128.8 | 5647.14 | -101.87 | 141.12 | 174.04 | 22.02 | S 51.2 E | -0.22 |
| 59 | 5790 | 90.3 | 127.7 | 5647.24 | -108.06 | 148.97 | 184.04 | 21.09 | S 52.3 E | 0.19 |
| 60 | 5800 | 91.8 | 127.0 | 5647.06 | -114.13 | 156.92 | 194.03 | 16.55 | S 53.0 E | 0.44 |
| 61 | 5810 | 92.7 | 126.5 | 5646.67 | -120.11 | 164.92 | 204.02 | 10.29 | S 53.5 E | 0.59 |
| 62 | 5820 | 93.0 | 126.2 | 5646.17 | -126.03 | 172.97 | 214.01 | 4.24 | S 53.8 E | 0.66 |
| 63 | 5830 | 93.6 | 126.2 | 5645.59 | -131.92 | 181.02 | 223.99 | 6.00 | S 53.8 E | 0.72 |
| 64 | 5840 | 93.9 | 126.4 | 5644.94 | -137.83 | 189.06 | 233.97 | 3.60 | S 53.6 E | 0.79 |
| 65 | 5850 | 93.5 | 126.0 | 5644.30 | -143.72 | 197.12 | 243.95 | 5.65 | S 54.0 E | 0.84 |
| 66 | 5860 | 92.4 | 125.5 | 5643.78 | -149.56 | 205.22 | 253.94 | 12.08 | S 54.5 E | 0.81 |
| 67 | 5870 | 90.6 | 124.7 | 5643.52 | -155.31 | 213.40 | 263.93 | 19.70 | S 55.3 E | 0.67 |
| 68 | 5880 | 89.2 | 124.6 | 5643.54 | -160.99 | 221.63 | 273.93 | 14.04 | S 55.4 E | 0.45 |
| 69 | 5890 | 88.4 | 124.5 | 5643.75 | -166.66 | 229.86 | 283.92 | 8.06 | S 55.5 E | 0.22 |
| 70 | 5900 | 88.4 | 124.4 | 5644.03 | -172.32 | 238.10 | 293.92 | 1.00 | S 55.6 E | -0.03 |
| 71 | 5910 | 88.4 | 124.6 | 5644.30 | -177.98 | 246.34 | 303.91 | 2.00 | S 55.4 E | -0.28 |
| 72 | 5920 | 88.5 | 124.6 | 5644.57 | -183.66 | 254.57 | 313.90 | 1.00 | S 55.4 E | -0.50 |
| 73 | 5930 | 89.0 | 124.7 | 5644.79 | -189.34 | 262.79 | 323.90 | 5.10 | S 55.3 E | -0.72 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #1 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1541.45' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.15° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/16/97 | TIME: 1:44 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 74 | 5940 | 88.9 | 125.0 | 5644.98 | -195.05 | 271.00 | 333.89 | 3.16 | S 55.0 E | -0.91 |
| 75 | 5950 | 88.1 | 125.5 | 5645.24 | -200.82 | 279.16 | 343.89 | 9.43 | S 54.5 E | -1.02 |
| 76 | 5960 | 87.8 | 126.3 | 5645.60 | -206.68 | 287.26 | 353.88 | 8.54 | S 53.7 E | -1.02 |
| 77 | 5970 | 87.9 | 126.5 | 5645.97 | -212.61 | 295.30 | 363.88 | 2.23 | S 53.5 E | -0.93 |
| 78 | 5980 | 88.0 | 126.8 | 5646.33 | -218.58 | 303.32 | 373.87 | 3.16 | S 53.2 E | -0.80 |
| 79 | 5990 | 88.1 | 127.0 | 5646.67 | -224.58 | 311.31 | 383.86 | 2.24 | S 53.0 E | -0.63 |
| 80 | 6000 | 88.3 | 127.1 | 5646.98 | -230.60 | 319.29 | 393.85 | 2.24 | S 52.9 E | -0.43 |
| 81 | 6010 | 88.5 | 127.3 | 5647.26 | -236.64 | 327.25 | 403.85 | 2.83 | S 52.7 E | -0.20 |
| 82 | 6020 | 88.8 | 127.6 | 5647.50 | -242.72 | 335.19 | 413.84 | 4.24 | S 52.4 E | 0.07 |
| 83 | 6030 | 89.3 | 127.7 | 5647.66 | -248.83 | 343.10 | 423.84 | 5.10 | S 52.3 E | 0.38 |
| 84 | 6040 | 88.6 | 127.0 | 5647.85 | -254.90 | 351.05 | 433.83 | 9.90 | S 53.0 E | 0.63 |
| 85 | 6050 | 87.8 | 126.5 | 5648.16 | -260.88 | 359.06 | 443.82 | 9.43 | S 53.5 E | 0.78 |
| 86 | 6060 | 87.9 | 126.6 | 5648.54 | -266.83 | 367.09 | 453.82 | 1.41 | S 53.4 E | 0.89 |
| 87 | 6070 | 88.1 | 126.8 | 5648.89 | -272.80 | 375.10 | 463.81 | 2.83 | S 53.2 E | 1.03 |
| 88 | 6080 | 88.0 | 126.6 | 5649.23 | -278.77 | 383.11 | 473.80 | 2.24 | S 53.4 E | 1.17 |
| 89 | 6090 | 88.3 | 126.7 | 5649.55 | -284.74 | 391.13 | 483.80 | 3.16 | S 53.3 E | 1.30 |
| 90 | 6100 | 88.4 | 126.8 | 5649.84 | -290.72 | 399.14 | 493.79 | 1.41 | S 53.2 E | 1.45 |
| 91 | 6110 | 88.6 | 126.9 | 5650.10 | -296.71 | 407.14 | 503.79 | 2.24 | S 53.1 E | 1.61 |
| 92 | 6120 | 88.9 | 127.5 | 5650.32 | -302.76 | 415.10 | 513.78 | 6.71 | S 52.5 E | 1.84 |
| 93 | 6130 | 89.1 | 126.9 | 5650.49 | -308.80 | 423.07 | 523.78 | 6.32 | S 53.1 E | 2.07 |
| 94 | 6140 | 89.0 | 126.3 | 5650.66 | -314.77 | 431.10 | 533.78 | 6.08 | S 53.7 E | 2.19 |
| 95 | 6150 | 89.3 | 126.3 | 5650.80 | -320.69 | 439.15 | 543.77 | 3.00 | S 53.7 E | 2.26 |
| 96 | 6160 | 89.7 | 125.9 | 5650.89 | -326.58 | 447.23 | 553.77 | 5.66 | S 54.1 E | 2.30 |
| 97 | 6170 | 90.3 | 125.4 | 5650.89 | -332.41 | 455.36 | 563.77 | 7.81 | S 54.6 E | 2.25 |
| 98 | 6180 | 90.6 | 124.0 | 5650.81 | -338.10 | 463.58 | 573.77 | 14.32 | S 56.0 E | 2.04 |
| 99 | 6190 | 90.8 | 124.0 | 5650.69 | -343.69 | 471.87 | 583.76 | 2.00 | S 56.0 E | 1.71 |
| 100 | 6200 | 91.1 | 124.3 | 5650.53 | -349.30 | 480.15 | 593.76 | 4.24 | S 55.7 E | 1.41 |
| 101 | 6210 | 92.3 | 124.8 | 5650.23 | -354.97 | 488.38 | 603.75 | 13.00 | S 55.2 E | 1.17 |
| 102 | 6220 | 93.3 | 125.2 | 5649.74 | -360.70 | 496.56 | 613.74 | 10.77 | S 54.8 E | 1.01 |
| 103 | 6230 | 94.3 | 125.0 | 5649.08 | -366.44 | 504.72 | 623.71 | 10.20 | S 55.0 E | 0.87 |
| 104 | 6240 | 94.5 | 125.1 | 5648.31 | -372.16 | 512.88 | 633.68 | 2.23 | S 54.9 E | 0.73 |
| 105 | 6250 | 94.9 | 125.3 | 5647.49 | -377.91 | 521.03 | 643.65 | 4.47 | S 54.7 E | 0.60 |
| 106 | 6260 | 95.4 | 125.5 | 5646.59 | -383.68 | 529.15 | 653.61 | 5.38 | S 54.5 E | 0.52 |
| 107 | 6270 | 95.9 | 125.8 | 5645.61 | -389.48 | 537.23 | 663.56 | 5.82 | S 54.2 E | 0.47 |
| 108 | 6280 | 95.9 | 126.0 | 5644.58 | -395.31 | 545.29 | 673.51 | 1.99 | S 54.0 E | 0.47 |
| 109 | 6290 | 95.2 | 125.5 | 5643.61 | -401.12 | 553.37 | 683.46 | 8.59 | S 54.5 E | 0.45 |
| 110 | 6300 | 94.8 | 125.8 | 5642.74 | -406.93 | 561.46 | 693.42 | 4.99 | S 54.2 E | 0.40 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #1 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1541.45' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.15° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/16/97 | TIME: 1:44 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 111 | 6310 | 94.6 | 125.8 | 5641.92 | -412.76 | 569.55 | 703.39 | 2.00 | S 54.2 E | 0.39 |
| 112 | 6320 | 93.8 | 125.1 | 5641.19 | -418.55 | 577.67 | 713.36 | 10.62 | S 54.9 E | 0.31 |
| 113 | 6330 | 92.9 | 124.6 | 5640.61 | -424.25 | 585.86 | 723.34 | 10.29 | S 55.4 E | 0.13 |
| 114 | 6340 | 92.6 | 124.4 | 5640.13 | -429.91 | 594.10 | 733.33 | 3.60 | S 55.6 E | -0.12 |
| 115 | 6350 | 92.9 | 124.3 | 5639.65 | -435.54 | 602.34 | 743.31 | 3.16 | S 55.7 E | -0.39 |
| 116 | 6360 | 93.3 | 124.4 | 5639.11 | -441.18 | 610.59 | 753.29 | 4.12 | S 55.6 E | -0.66 |
| 117 | 6370 | 93.8 | 124.3 | 5638.49 | -446.81 | 618.83 | 763.27 | 5.10 | S 55.7 E | -0.93 |
| 118 | 6380 | 94.1 | 124.4 | 5637.80 | -452.44 | 627.06 | 773.24 | 3.16 | S 55.6 E | -1.20 |
| 119 | 6390 | 94.4 | 124.5 | 5637.06 | -458.08 | 635.29 | 783.21 | 3.16 | S 55.5 E | -1.45 |
| 120 | 6400 | 95.1 | 124.2 | 5636.23 | -463.70 | 643.51 | 793.18 | 7.61 | S 55.8 E | -1.72 |
| 121 | 6410 | 94.7 | 124.7 | 5635.37 | -469.34 | 651.73 | 803.14 | 6.39 | S 55.3 E | -1.97 |
| 122 | 6420 | 93.9 | 125.3 | 5634.62 | -475.06 | 659.90 | 813.11 | 9.99 | S 54.7 E | -2.13 |
| 123 | 6430 | 93.3 | 125.8 | 5634.00 | -480.86 | 668.02 | 823.09 | 7.80 | S 54.2 E | -2.19 |
| 124 | 6440 | 94.5 | 125.9 | 5633.32 | -486.70 | 676.10 | 833.06 | 12.04 | S 54.1 E | -2.20 |
| 125 | 6450 | 94.7 | 126.1 | 5632.51 | -492.56 | 684.17 | 843.03 | 2.82 | S 53.9 E | -2.18 |
| 126 | 6460 | 95.6 | 126.5 | 5631.62 | -498.46 | 692.20 | 852.99 | 9.84 | S 53.5 E | -2.11 |
| 127 | 6470 | 95.7 | 126.6 | 5630.63 | -504.39 | 700.19 | 862.94 | 1.41 | S 53.4 E | -2.00 |
| 128 | 6480 | 94.6 | 126.3 | 5629.73 | -510.30 | 708.20 | 872.90 | 11.40 | S 53.7 E | -1.90 |
| 129 | 6490 | 93.6 | 126.1 | 5629.02 | -516.19 | 716.25 | 882.87 | 10.20 | S 53.9 E | -1.85 |
| 130 | 6500 | 93.8 | 126.4 | 5628.37 | -522.09 | 724.30 | 892.85 | 3.60 | S 53.6 E | -1.79 |
| 131 | 6510 | 94.0 | 126.5 | 5627.69 | -528.02 | 732.32 | 902.83 | 2.24 | S 53.5 E | -1.69 |
| 132 | 6520 | 94.4 | 126.6 | 5626.96 | -533.96 | 740.33 | 912.80 | 4.12 | S 53.4 E | -1.58 |
| 133 | 6530 | 94.9 | 126.7 | 5626.15 | -539.91 | 748.33 | 922.77 | 5.10 | S 53.3 E | -1.45 |
| 134 | 6540 | 95.2 | 126.9 | 5625.27 | -545.88 | 756.31 | 932.73 | 3.60 | S 53.1 E | -1.29 |
| 135 | 6550 | 95.8 | 127.0 | 5624.31 | -551.86 | 764.26 | 942.68 | 6.08 | S 53.0 E | -1.11 |
| 136 | 6560 | 96.4 | 127.4 | 5623.25 | -557.87 | 772.18 | 952.62 | 7.20 | S 52.6 E | -0.89 |
| 137 | 6570 | 95.7 | 127.1 | 5622.20 | -563.89 | 780.10 | 962.56 | 7.61 | S 52.9 E | -0.65 |
| 138 | 6580 | 93.6 | 126.7 | 5621.39 | -569.88 | 788.07 | 972.53 | 21.38 | S 53.3 E | -0.48 |
| 139 | 6590 | 92.1 | 126.6 | 5620.89 | -575.84 | 796.08 | 982.51 | 15.03 | S 53.4 E | -0.35 |
| 140 | 6600 | 90.7 | 126.5 | 5620.64 | -581.79 | 804.11 | 992.51 | 14.04 | S 53.5 E | -0.23 |
| 141 | 6610 | 90.0 | 126.4 | 5620.58 | -587.73 | 812.15 | 1002.51 | 7.07 | S 53.6 E | -0.14 |
| 142 | 6620 | 89.8 | 126.2 | 5620.60 | -593.65 | 820.21 | 1012.51 | 2.83 | S 53.8 E | -0.07 |
| 143 | 6630 | 88.8 | 126.1 | 5620.72 | -599.55 | 828.29 | 1022.51 | 10.05 | S 53.9 E | -0.02 |
| 144 | 6640 | 87.3 | 126.1 | 5621.06 | -605.44 | 836.36 | 1032.50 | 15.00 | S 53.9 E | 0.01 |
| 145 | 6650 | 86.8 | 126.0 | 5621.58 | -611.32 | 844.44 | 1042.49 | 5.10 | S 54.0 E | 0.04 |
| 146 | 6660 | 86.8 | 125.9 | 5622.14 | -617.18 | 852.52 | 1052.47 | 1.00 | S 54.1 E | 0.04 |
| 147 | 6670 | 86.8 | 125.7 | 5622.69 | -623.02 | 860.62 | 1062.46 | 2.00 | S 54.3 E | 0.03 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #1 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1541.45' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.15° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/16/97 | TIME: 1:44 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 148 | 6680 | 86.9 | 126.0 | 5623.24 | -628.87 | 868.71 | 1072.44 | 3.16 | S 54.0 E | 0.02 |
| 149 | 6690 | 87.1 | 125.8 | 5623.77 | -634.72 | 876.80 | 1082.43 | 2.83 | S 54.2 E | 0.02 |
| 150 | 6700 | 87.5 | 125.8 | 5624.24 | -640.56 | 884.90 | 1092.42 | 4.00 | S 54.2 E | 0.00 |
| 151 | 6710 | 87.8 | 126.0 | 5624.65 | -646.42 | 893.00 | 1102.41 | 3.60 | S 54.0 E | 0.00 |
| 152 | 6720 | 88.3 | 126.0 | 5624.99 | -652.30 | 901.08 | 1112.40 | 5.00 | S 54.0 E | 0.02 |
| 153 | 6730 | 88.7 | 126.0 | 5625.25 | -658.17 | 909.17 | 1122.40 | 4.00 | S 54.0 E | 0.04 |
| 154 | 6740 | 89.8 | 125.7 | 5625.38 | -664.03 | 917.27 | 1132.40 | 11.40 | S 54.3 E | 0.03 |
| 155 | 6750 | 89.4 | 125.3 | 5625.45 | -669.84 | 925.41 | 1142.40 | 5.66 | S 54.7 E | -0.04 |
| 156 | 6760 | 87.0 | 125.2 | 5625.76 | -675.60 | 933.58 | 1152.39 | 24.02 | S 54.8 E | -0.16 |
| 157 | 6770 | 85.8 | 125.3 | 5626.39 | -681.36 | 941.73 | 1162.37 | 12.04 | S 54.7 E | -0.27 |
| 158 | 6780 | 85.8 | 125.5 | 5627.12 | -687.14 | 949.86 | 1172.34 | 1.99 | S 54.5 E | -0.36 |
| 159 | 6790 | 86.1 | 125.7 | 5627.83 | -692.95 | 957.97 | 1182.32 | 3.60 | S 54.3 E | -0.41 |
| 160 | 6800 | 86.5 | 125.7 | 5628.48 | -698.77 | 966.07 | 1192.30 | 4.00 | S 54.3 E | -0.44 |
| 161 | 6810 | 86.8 | 125.7 | 5629.06 | -704.60 | 974.18 | 1202.28 | 3.00 | S 54.3 E | -0.48 |
| 162 | 6820 | 87.4 | 125.9 | 5629.57 | -710.44 | 982.28 | 1212.27 | 6.32 | S 54.1 E | -0.50 |
| 163 | 6830 | 87.8 | 126.1 | 5629.99 | -716.31 | 990.36 | 1222.26 | 4.47 | S 53.9 E | -0.48 |
| 164 | 6840 | 88.1 | 126.1 | 5630.34 | -722.20 | 998.44 | 1232.25 | 3.00 | S 53.9 E | -0.44 |
| 165 | 6850 | 87.9 | 126.2 | 5630.69 | -728.10 | 1006.51 | 1242.25 | 2.24 | S 53.8 E | -0.40 |
| 166 | 6860 | 87.4 | 126.3 | 5631.10 | -734.00 | 1014.56 | 1252.24 | 5.10 | S 53.7 E | -0.34 |
| 167 | 6870 | 88.0 | 126.6 | 5631.50 | -739.94 | 1022.60 | 1262.23 | 6.71 | S 53.4 E | -0.24 |
| 168 | 6880 | 86.8 | 127.1 | 5631.96 | -745.93 | 1030.59 | 1272.22 | 13.00 | S 52.9 E | -0.08 |
| 169 | 6890 | 86.2 | 127.4 | 5632.57 | -751.97 | 1038.54 | 1282.20 | 6.71 | S 52.6 E | 0.16 |
| 170 | 6900 | 85.9 | 127.5 | 5633.26 | -758.04 | 1046.46 | 1292.17 | 3.16 | S 52.5 E | 0.43 |
| 171 | 6910 | 85.8 | 126.7 | 5633.98 | -764.05 | 1054.41 | 1302.14 | 8.04 | S 53.3 E | 0.64 |
| 172 | 6920 | 85.6 | 126.0 | 5634.73 | -769.97 | 1062.45 | 1312.11 | 7.26 | S 54.0 E | 0.72 |
| 173 | 6930 | 85.7 | 125.5 | 5635.49 | -775.79 | 1070.54 | 1322.08 | 5.08 | S 54.5 E | 0.69 |
| 174 | 6940 | 85.7 | 125.2 | 5636.24 | -781.56 | 1078.67 | 1332.05 | 2.99 | S 54.8 E | 0.59 |
| 175 | 6950 | 85.9 | 125.1 | 5636.97 | -787.30 | 1086.83 | 1342.03 | 2.23 | S 54.9 E | 0.46 |
| 176 | 6960 | 86.3 | 125.0 | 5637.65 | -793.03 | 1094.99 | 1352.00 | 4.12 | S 55.0 E | 0.32 |
| 177 | 6970 | 86.4 | 124.9 | 5638.29 | -798.75 | 1103.17 | 1361.98 | 1.41 | S 55.1 E | 0.15 |
| 178 | 6980 | 86.2 | 124.8 | 5638.93 | -804.45 | 1111.36 | 1371.96 | 2.24 | S 55.2 E | -0.03 |
| 179 | 6990 | 86.3 | 124.5 | 5639.59 | -810.12 | 1119.57 | 1381.93 | 3.16 | S 55.5 E | -0.25 |
| 180 | 7000 | 86.9 | 124.8 | 5640.18 | -815.80 | 1127.78 | 1391.91 | 6.71 | S 55.2 E | -0.47 |
| 181 | 7010 | 86.4 | 125.2 | 5640.76 | -821.53 | 1135.96 | 1401.90 | 6.40 | S 54.8 E | -0.63 |
| 182 | 7020 | 86.3 | 126.1 | 5641.40 | -827.34 | 1144.07 | 1411.87 | 9.04 | S 53.9 E | -0.67 |
| 183 | 7030 | 86.2 | 126.4 | 5642.05 | -833.24 | 1152.12 | 1421.85 | 3.16 | S 53.6 E | -0.61 |
| 184 | 7040 | 85.4 | 125.9 | 5642.79 | -839.13 | 1160.17 | 1431.83 | 9.43 | S 54.1 E | -0.56 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #1 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1541.45' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.15° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/16/97 | TIME: 1:44 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 185 | 7050 | 84.4 | 125.5 | 5643.68 | -844.94 | 1168.26 | 1441.79 | 10.76 | S 54.5 E | -0.60 |
| 186 | 7060 | 84.3 | 125.4 | 5644.66 | -850.71 | 1176.36 | 1451.74 | 1.41 | S 54.6 E | -0.68 |
| 187 | 7070 | 84.3 | 125.2 | 5645.65 | -856.46 | 1184.49 | 1461.69 | 1.99 | S 54.8 E | -0.78 |
| 188 | 7080 | 84.5 | 125.1 | 5646.63 | -862.19 | 1192.62 | 1471.64 | 2.23 | S 54.9 E | -0.91 |
| 189 | 7090 | 84.5 | 124.5 | 5647.59 | -867.87 | 1200.80 | 1481.59 | 5.97 | S 55.5 E | -1.10 |
| 190 | 7100 | 85.0 | 125.1 | 5648.50 | -873.55 | 1208.97 | 1491.55 | 7.79 | S 54.9 E | -1.29 |
| 191 | 7110 | 85.9 | 126.0 | 5649.30 | -879.35 | 1217.08 | 1501.52 | 12.71 | S 54.0 E | -1.36 |
| 192 | 7120 | 86.3 | 126.0 | 5649.98 | -885.21 | 1225.16 | 1511.49 | 4.00 | S 54.0 E | -1.34 |
| 193 | 7130 | 86.6 | 126.0 | 5650.60 | -891.08 | 1233.23 | 1521.47 | 3.00 | S 54.0 E | -1.32 |
| 194 | 7140 | 87.1 | 125.9 | 5651.15 | -896.94 | 1241.31 | 1531.46 | 5.10 | S 54.1 E | -1.31 |
| 195 | 7150 | 87.2 | 126.2 | 5651.64 | -902.82 | 1249.39 | 1541.45 | 3.16 | S 53.8 E | -1.29 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #2 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1365.06 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.62° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/22/97 | TIME: 11:07 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| TIE | 5400 | 0.4 | 103.4 | 5399.65 | 20.77 | -39.47 | 41.48 | 0.28 | S 76.6 E | -16.38 |
| 1 | 5445 | 2.8 | 332.0 | 5444.63 | 21.71 | -39.84 | 42.44 | 6.79 | N 28.0 W | -16.05 |
| 2 | 5449 | 3.6 | 332.0 | 5448.63 | 21.90 | -39.95 | 42.66 | 20.00 | N 28.0 W | -16.00 |
| 3 | 5455 | 4.1 | 332.4 | 5454.61 | 22.26 | -40.14 | 43.05 | 8.35 | N 27.6 W | -15.91 |
| 4 | 5460 | 4.9 | 332.9 | 5459.60 | 22.61 | -40.32 | 43.43 | 16.02 | N 27.1 W | -15.82 |
| 5 | 5465 | 5.9 | 333.4 | 5464.58 | 23.03 | -40.53 | 43.89 | 20.02 | N 26.6 W | -15.71 |
| 6 | 5470 | 6.9 | 333.8 | 5469.54 | 23.53 | -40.78 | 44.43 | 20.02 | N 26.2 W | -15.57 |
| 7 | 5475 | 7.9 | 334.3 | 5474.50 | 24.11 | -41.06 | 45.05 | 20.04 | N 25.7 W | -15.41 |
| 8 | 5480 | 9.0 | 334.8 | 5479.45 | 24.77 | -41.37 | 45.76 | 22.05 | N 25.2 W | -15.21 |
| 9 | 5485 | 10.1 | 335.2 | 5484.38 | 25.52 | -41.73 | 46.56 | 22.04 | N 24.8 W | -14.99 |
| 10 | 5490 | 10.8 | 335.7 | 5489.30 | 26.35 | -42.10 | 47.43 | 14.12 | N 24.3 W | -14.74 |
| 11 | 5495 | 12.4 | 336.2 | 5494.19 | 27.27 | -42.51 | 48.39 | 32.06 | N 23.8 W | -14.45 |
| 12 | 5500 | 13.6 | 336.6 | 5499.07 | 28.30 | -42.96 | 49.47 | 24.07 | N 23.4 W | -14.12 |
| 13 | 5505 | 14.9 | 337.1 | 5503.91 | 29.43 | -43.44 | 50.64 | 26.12 | N 22.9 W | -13.75 |
| 14 | 5510 | 16.2 | 337.6 | 5508.73 | 30.67 | -43.96 | 51.92 | 26.14 | N 22.4 W | -13.33 |
| 15 | 5515 | 17.6 | 338.7 | 5513.51 | 32.01 | -44.50 | 53.29 | 28.72 | N 21.3 W | -12.86 |
| 16 | 5520 | 18.9 | 338.4 | 5518.26 | 33.47 | -45.07 | 54.77 | 26.07 | N 21.6 W | -12.35 |
| 17 | 5525 | 20.2 | 337.5 | 5522.97 | 35.02 | -45.70 | 56.35 | 26.69 | N 22.5 W | -11.81 |
| 18 | 5530 | 21.4 | 336.7 | 5527.65 | 36.66 | -46.39 | 58.04 | 24.66 | N 23.3 W | -11.27 |
| 19 | 5535 | 22.6 | 336.2 | 5532.28 | 38.37 | -47.14 | 59.83 | 24.29 | N 23.8 W | -10.72 |
| 20 | 5540 | 23.9 | 336.0 | 5536.88 | 40.18 | -47.94 | 61.72 | 26.05 | N 24.0 W | -10.15 |
| 21 | 5545 | 25.4 | 336.2 | 5541.42 | 42.09 | -48.79 | 63.72 | 30.05 | N 23.8 W | -9.54 |
| 22 | 5550 | 26.6 | 336.7 | 5545.91 | 44.09 | -49.66 | 65.81 | 24.40 | N 23.3 W | -8.90 |
| 23 | 5555 | 27.7 | 337.0 | 5550.36 | 46.19 | -50.56 | 67.99 | 22.17 | N 23.0 W | -8.21 |
| 24 | 5560 | 29.0 | 337.4 | 5554.76 | 48.38 | -51.48 | 70.25 | 26.28 | N 22.6 W | -7.48 |
| 25 | 5565 | 30.1 | 337.8 | 5559.11 | 50.66 | -52.42 | 72.59 | 22.35 | N 22.2 W | -6.70 |
| 26 | 5570 | 31.2 | 338.4 | 5563.41 | 53.03 | -53.37 | 75.00 | 22.83 | N 21.6 W | -5.88 |
| 27 | 5575 | 32.3 | 338.4 | 5567.67 | 55.47 | -54.34 | 77.49 | 22.00 | N 21.6 W | -5.02 |
| 28 | 5580 | 33.5 | 338.7 | 5571.86 | 58.00 | -55.33 | 80.05 | 24.22 | N 21.3 W | -4.13 |
| 29 | 5585 | 34.6 | 339.0 | 5576.01 | 60.61 | -56.34 | 82.69 | 22.25 | N 21.0 W | -3.19 |
| 30 | 5590 | 35.6 | 339.2 | 5580.10 | 63.30 | -57.37 | 85.40 | 20.13 | N 20.8 W | -2.22 |
| 31 | 5595 | 36.9 | 339.4 | 5584.13 | 66.06 | -58.41 | 88.17 | 26.11 | N 20.6 W | -1.20 |
| 32 | 5600 | 38.0 | 339.6 | 5588.10 | 68.91 | -59.48 | 91.03 | 22.13 | N 20.4 W | -0.15 |
| 33 | 5605 | 39.2 | 339.7 | 5592.01 | 71.84 | -60.56 | 93.95 | 24.03 | N 20.3 W | 0.93 |
| 34 | 5610 | 41.1 | 339.9 | 5595.83 | 74.86 | -61.67 | 96.97 | 38.09 | N 20.1 W | 2.06 |
| 35 | 5615 | 42.4 | 340.1 | 5599.56 | 77.99 | -62.81 | 100.09 | 26.14 | N 19.9 W | 3.24 |
| 36 | 5620 | 43.6 | 340.2 | 5603.22 | 81.20 | -63.97 | 103.27 | 24.04 | N 19.8 W | 4.45 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #2 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1365.06 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.62° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/22/97 | TIME: 11:07 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 37 | 5625 | 44.9 | 340.4 | 5606.80 | 84.48 | -65.15 | 106.53 | 26.15 | N 19.6 W | 5.70 |
| 38 | 5630 | 46.2 | 340.4 | 5610.30 | 87.84 | -66.34 | 109.86 | 26.00 | N 19.6 W | 6.99 |
| 39 | 5635 | 47.5 | 340.7 | 5613.72 | 91.28 | -67.56 | 113.26 | 26.37 | N 19.3 W | 8.31 |
| 40 | 5640 | 49.0 | 340.8 | 5617.05 | 94.81 | -68.79 | 116.73 | 30.04 | N 19.2 W | 9.67 |
| 41 | 5645 | 50.3 | 340.9 | 5620.28 | 98.40 | -70.04 | 120.28 | 26.04 | N 19.1 W | 11.07 |
| 42 | 5650 | 51.6 | 341.0 | 5623.43 | 102.08 | -71.31 | 123.88 | 26.05 | N 19.0 W | 12.50 |
| 43 | 5655 | 52.8 | 341.1 | 5626.50 | 105.81 | -72.59 | 127.55 | 24.05 | N 18.9 W | 13.97 |
| 44 | 5660 | 54.1 | 341.3 | 5629.48 | 109.61 | -73.88 | 131.28 | 26.20 | N 18.7 W | 15.47 |
| 45 | 5665 | 55.5 | 341.4 | 5632.36 | 113.49 | -75.19 | 135.07 | 28.05 | N 18.6 W | 17.00 |
| 46 | 5670 | 57.0 | 341.6 | 5635.14 | 117.43 | -76.51 | 138.92 | 30.18 | N 18.4 W | 18.57 |
| 47 | 5675 | 58.3 | 341.7 | 5637.81 | 121.44 | -77.84 | 142.82 | 26.05 | N 18.3 W | 20.18 |
| 48 | 5680 | 59.6 | 341.9 | 5640.39 | 125.51 | -79.18 | 146.78 | 26.22 | N 18.1 W | 21.82 |
| 49 | 5685 | 60.9 | 341.9 | 5642.87 | 129.63 | -80.52 | 150.79 | 26.00 | N 18.1 W | 23.48 |
| 50 | 5690 | 62.2 | 342.0 | 5645.25 | 133.81 | -81.89 | 154.85 | 26.06 | N 18.0 W | 25.18 |
| 51 | 5695 | 63.6 | 342.1 | 5647.53 | 138.05 | -83.26 | 158.95 | 28.06 | N 17.9 W | 26.90 |
| 52 | 5700 | 65.1 | 342.2 | 5649.70 | 142.34 | -84.64 | 163.10 | 30.05 | N 17.8 W | 28.65 |
| 53 | 5705 | 66.5 | 342.2 | 5651.74 | 146.68 | -86.03 | 167.30 | 28.00 | N 17.8 W | 30.42 |
| 54 | 5710 | 67.9 | 342.3 | 5653.68 | 151.07 | -87.44 | 171.55 | 28.06 | N 17.7 W | 32.22 |
| 55 | 5715 | 69.3 | 342.3 | 5655.51 | 155.50 | -88.85 | 175.83 | 28.00 | N 17.7 W | 34.04 |
| 56 | 5720 | 70.7 | 342.3 | 5657.22 | 159.98 | -90.28 | 180.16 | 28.00 | N 17.7 W | 35.88 |
| 57 | 5725 | 72.0 | 342.3 | 5658.82 | 164.49 | -91.72 | 184.52 | 26.00 | N 17.7 W | 37.73 |
| 58 | 5730 | 73.4 | 342.3 | 5660.30 | 169.04 | -93.17 | 188.91 | 28.00 | N 17.7 W | 39.59 |
| 59 | 5735 | 74.9 | 342.2 | 5661.67 | 173.62 | -94.64 | 193.34 | 30.06 | N 17.8 W | 41.47 |
| 60 | 5740 | 76.2 | 342.2 | 5662.92 | 178.23 | -96.12 | 197.80 | 26.00 | N 17.8 W | 43.35 |
| 61 | 5745 | 77.6 | 342.1 | 5664.05 | 182.87 | -97.61 | 202.29 | 28.07 | N 17.9 W | 45.24 |
| 62 | 5750 | 79.0 | 342.0 | 5665.06 | 187.52 | -99.12 | 206.81 | 28.07 | N 18.0 W | 47.14 |
| 63 | 5755 | 80.4 | 342.1 | 5665.96 | 192.20 | -100.64 | 211.34 | 28.07 | N 17.9 W | 49.04 |
| 64 | 5760 | 81.7 | 342.0 | 5666.73 | 196.90 | -102.16 | 215.90 | 26.07 | N 18.0 W | 50.95 |
| 65 | 5765 | 83.1 | 341.9 | 5667.40 | 201.61 | -103.70 | 220.47 | 28.07 | N 18.1 W | 52.86 |
| 66 | 5770 | 84.4 | 341.8 | 5667.94 | 206.34 | -105.24 | 225.06 | 26.08 | N 18.2 W | 54.76 |
| 67 | 5775 | 85.8 | 341.9 | 5668.37 | 211.07 | -106.80 | 229.66 | 28.07 | N 18.1 W | 56.67 |
| 68 | 5780 | 87.1 | 341.8 | 5668.68 | 215.81 | -108.35 | 234.27 | 26.08 | N 18.2 W | 58.59 |
| 69 | 5785 | 88.4 | 341.7 | 5668.87 | 220.56 | -109.92 | 238.89 | 26.08 | N 18.3 W | 60.49 |
| 70 | 5790 | 89.6 | 341.6 | 5668.96 | 225.30 | -111.49 | 243.51 | 24.08 | N 18.4 W | 62.40 |
| 71 | 5795 | 91.2 | 341.3 | 5668.93 | 230.04 | -113.08 | 248.14 | 32.56 | N 18.7 W | 64.28 |
| 72 | 5800 | 92.4 | 341.2 | 5668.77 | 234.77 | -114.69 | 252.78 | 24.08 | N 18.8 W | 66.15 |
| 73 | 5810 | 94.7 | 340.6 | 5668.15 | 244.21 | -117.95 | 262.06 | 23.77 | N 19.4 W | 69.82 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #2 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1365.06 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.62° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/22/97 | TIME: 11:07 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 74 | 5820 | 97.1 | 339.4 | 5667.12 | 253.55 | -121.35 | 271.36 | 26.80 | N 20.6 W | 73.34 |
| 75 | 5830 | 98.0 | 336.9 | 5665.81 | 262.75 | -125.04 | 280.74 | 26.37 | N 23.1 W | 76.54 |
| 76 | 5840 | 98.3 | 335.1 | 5664.39 | 271.79 | -129.07 | 290.22 | 18.07 | N 24.9 W | 79.39 |
| 77 | 5850 | 97.4 | 333.2 | 5663.02 | 280.71 | -133.39 | 299.80 | 20.86 | N 26.8 W | 81.92 |
| 78 | 5860 | 95.7 | 331.7 | 5661.88 | 289.52 | -137.98 | 309.47 | 22.61 | N 28.3 W | 84.18 |
| 79 | 5870 | 94.9 | 330.1 | 5660.96 | 298.22 | -142.82 | 319.22 | 17.83 | N 29.9 W | 86.19 |
| 80 | 5880 | 94.6 | 328.2 | 5660.13 | 306.77 | -147.93 | 329.04 | 19.17 | N 31.8 W | 87.89 |
| 81 | 5890 | 94.9 | 326.2 | 5659.30 | 315.15 | -153.33 | 338.91 | 20.16 | N 33.8 W | 89.26 |
| 82 | 5900 | 95.7 | 324.1 | 5658.38 | 323.32 | -159.02 | 348.82 | 22.39 | N 35.9 W | 90.28 |
| 83 | 5910 | 96.3 | 321.9 | 5657.33 | 331.26 | -165.01 | 358.74 | 22.69 | N 38.1 W | 90.92 |
| 84 | 5920 | 97.8 | 319.7 | 5656.11 | 338.95 | -171.28 | 368.66 | 26.49 | N 40.3 W | 91.18 |
| 85 | 5930 | 99.8 | 318.2 | 5654.58 | 346.40 | -177.77 | 378.54 | 24.89 | N 41.8 W | 91.12 |
| 86 | 5940 | 101.2 | 316.2 | 5652.75 | 353.62 | -184.45 | 388.37 | 24.14 | N 43.8 W | 90.76 |
| 87 | 5950 | 101.2 | 314.5 | 5650.81 | 360.60 | -191.34 | 398.15 | 16.68 | N 45.5 W | 90.08 |
| 88 | 5960 | 100.4 | 312.6 | 5648.94 | 367.36 | -198.46 | 407.93 | 20.31 | N 47.4 W | 89.10 |
| 89 | 5970 | 99.0 | 311.8 | 5647.25 | 373.98 | -205.76 | 417.71 | 16.07 | N 48.2 W | 87.88 |
| 90 | 5980 | 97.1 | 311.5 | 5645.85 | 380.56 | -213.16 | 427.52 | 19.23 | N 48.5 W | 86.56 |
| 91 | 5990 | 94.8 | 311.8 | 5644.82 | 387.17 | -220.59 | 437.38 | 23.19 | N 48.2 W | 85.24 |
| 92 | 6000 | 93.4 | 311.6 | 5644.10 | 393.81 | -228.04 | 447.26 | 14.14 | N 48.4 W | 83.92 |
| 93 | 6010 | 93.2 | 311.5 | 5643.53 | 400.43 | -235.51 | 457.16 | 2.24 | N 48.5 W | 82.57 |
| 94 | 6020 | 93.3 | 311.5 | 5642.96 | 407.05 | -242.99 | 467.05 | 1.00 | N 48.5 W | 81.22 |
| 95 | 6030 | 94.3 | 311.7 | 5642.30 | 413.67 | -250.45 | 476.94 | 10.20 | N 48.3 W | 79.88 |
| 96 | 6040 | 95.6 | 311.9 | 5641.43 | 420.31 | -257.88 | 486.81 | 13.15 | N 48.1 W | 78.58 |
| 97 | 6050 | 96.4 | 311.8 | 5640.39 | 426.95 | -265.28 | 496.67 | 8.06 | N 48.2 W | 77.29 |
| 98 | 6060 | 96.7 | 311.8 | 5639.25 | 433.57 | -272.69 | 506.52 | 3.00 | N 48.2 W | 75.99 |
| 99 | 6070 | 97.2 | 311.8 | 5638.04 | 440.18 | -280.09 | 516.37 | 5.00 | N 48.2 W | 74.70 |
| 100 | 6080 | 98.0 | 311.9 | 5636.71 | 446.80 | -287.47 | 526.19 | 8.06 | N 48.1 W | 73.41 |
| 101 | 6090 | 98.4 | 312.0 | 5635.29 | 453.41 | -294.83 | 536.01 | 4.12 | N 48.0 W | 72.15 |
| 102 | 6100 | 97.3 | 312.2 | 5633.92 | 460.06 | -302.19 | 545.84 | 11.18 | N 47.8 W | 70.90 |
| 103 | 6110 | 96.7 | 312.0 | 5632.70 | 466.71 | -309.55 | 555.69 | 6.32 | N 48.0 W | 69.66 |
| 104 | 6120 | 97.0 | 312.0 | 5631.51 | 473.35 | -316.93 | 565.53 | 3.00 | N 48.0 W | 68.40 |
| 105 | 6130 | 97.3 | 312.2 | 5630.27 | 480.01 | -324.29 | 575.38 | 3.60 | N 47.8 W | 67.16 |
| 106 | 6140 | 98.0 | 312.3 | 5628.93 | 486.67 | -331.63 | 585.21 | 7.07 | N 47.7 W | 65.94 |
| 107 | 6150 | 98.2 | 312.4 | 5627.53 | 493.34 | -338.94 | 595.04 | 2.23 | N 47.6 W | 64.74 |
| 108 | 6160 | 97.6 | 312.4 | 5626.15 | 500.02 | -346.26 | 604.87 | 6.00 | N 47.6 W | 63.55 |
| 109 | 6170 | 96.7 | 311.9 | 5624.91 | 506.68 | -353.61 | 614.72 | 10.28 | N 48.1 W | 62.32 |
| 110 | 6180 | 97.0 | 311.9 | 5623.71 | 513.31 | -361.00 | 624.57 | 3.00 | N 48.1 W | 61.04 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #2 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1365.06 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.62° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/22/97 | TIME: 11:07 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 111 | 6190 | 96.1 | 311.9 | 5622.57 | 519.94 | -368.40 | 634.42 | 9.00 | N 48.1 W | 59.76 |
| 112 | 6200 | 94.5 | 311.8 | 5621.65 | 526.58 | -375.81 | 644.29 | 16.03 | N 48.2 W | 58.47 |
| 113 | 6210 | 92.8 | 312.0 | 5621.01 | 533.25 | -383.24 | 654.19 | 17.12 | N 48.0 W | 57.18 |
| 114 | 6220 | 91.0 | 312.0 | 5620.68 | 539.94 | -390.67 | 664.10 | 18.00 | N 48.0 W | 55.91 |
| 115 | 6230 | 89.2 | 312.0 | 5620.66 | 546.63 | -398.10 | 674.02 | 18.00 | N 48.0 W | 54.64 |
| 116 | 6240 | 86.9 | 312.1 | 5621.00 | 553.32 | -405.52 | 683.93 | 23.02 | N 47.9 W | 53.38 |
| 117 | 6250 | 85.6 | 311.8 | 5621.66 | 559.99 | -412.94 | 693.83 | 13.34 | N 48.2 W | 52.10 |
| 118 | 6260 | 85.4 | 311.6 | 5622.44 | 566.62 | -420.39 | 703.71 | 2.82 | N 48.4 W | 50.78 |
| 119 | 6270 | 85.7 | 311.4 | 5623.22 | 573.23 | -427.85 | 713.59 | 3.60 | N 48.6 W | 49.43 |
| 120 | 6280 | 86.5 | 311.9 | 5623.90 | 579.86 | -435.31 | 723.48 | 9.43 | N 48.1 W | 48.10 |
| 121 | 6290 | 87.8 | 312.5 | 5624.40 | 586.57 | -442.71 | 733.39 | 14.31 | N 47.5 W | 46.87 |
| 122 | 6300 | 88.8 | 312.5 | 5624.69 | 593.32 | -450.08 | 743.31 | 10.00 | N 47.5 W | 45.69 |
| 123 | 6310 | 88.9 | 312.8 | 5624.89 | 600.10 | -457.43 | 753.24 | 3.16 | N 47.2 W | 44.53 |
| 124 | 6320 | 89.7 | 313.1 | 5625.02 | 606.91 | -464.75 | 763.18 | 8.54 | N 46.9 W | 43.42 |
| 125 | 6330 | 90.7 | 313.4 | 5624.98 | 613.76 | -472.03 | 773.12 | 10.44 | N 46.6 W | 42.37 |
| 126 | 6340 | 91.2 | 313.6 | 5624.81 | 620.64 | -479.28 | 783.07 | 5.39 | N 46.4 W | 41.36 |
| 127 | 6350 | 91.4 | 313.7 | 5624.59 | 627.54 | -486.52 | 793.02 | 2.24 | N 46.3 W | 40.37 |
| 128 | 6360 | 92.0 | 313.7 | 5624.29 | 634.45 | -493.74 | 802.97 | 6.00 | N 46.3 W | 39.40 |
| 129 | 6370 | 92.6 | 313.6 | 5623.89 | 641.35 | -500.97 | 812.91 | 6.08 | N 46.4 W | 38.41 |
| 130 | 6380 | 93.1 | 313.6 | 5623.39 | 648.23 | -508.21 | 822.85 | 5.00 | N 46.4 W | 37.42 |
| 131 | 6390 | 93.7 | 313.7 | 5622.80 | 655.12 | -515.43 | 832.78 | 6.08 | N 46.3 W | 36.44 |
| 132 | 6400 | 92.9 | 313.7 | 5622.22 | 662.02 | -522.65 | 842.72 | 8.00 | N 46.3 W | 35.47 |
| 133 | 6410 | 91.0 | 313.2 | 5621.88 | 668.89 | -529.90 | 852.66 | 19.65 | N 46.8 W | 34.45 |
| 134 | 6420 | 90.0 | 313.4 | 5621.80 | 675.75 | -537.18 | 862.61 | 10.20 | N 46.6 W | 33.40 |
| 135 | 6430 | 90.0 | 313.2 | 5621.80 | 682.61 | -544.46 | 872.55 | 2.00 | N 46.8 W | 32.36 |
| 136 | 6440 | 90.2 | 313.2 | 5621.78 | 689.46 | -551.75 | 882.49 | 2.00 | N 46.8 W | 31.29 |
| 137 | 6450 | 90.3 | 313.6 | 5621.74 | 696.33 | -559.01 | 892.44 | 4.12 | N 46.4 W | 30.27 |
| 138 | 6460 | 91.0 | 313.6 | 5621.62 | 703.22 | -566.25 | 902.39 | 7.00 | N 46.4 W | 29.27 |
| 139 | 6470 | 90.3 | 314.0 | 5621.51 | 710.14 | -573.47 | 912.34 | 8.06 | N 46.0 W | 28.31 |
| 140 | 6480 | 89.3 | 314.0 | 5621.54 | 717.09 | -580.67 | 922.30 | 10.00 | N 46.0 W | 27.39 |
| 141 | 6490 | 89.6 | 313.8 | 5621.64 | 724.02 | -587.87 | 932.26 | 3.61 | N 46.2 W | 26.45 |
| 142 | 6500 | 89.6 | 314.0 | 5621.71 | 730.96 | -595.08 | 942.21 | 2.00 | N 46.0 W | 25.51 |
| 143 | 6510 | 89.2 | 314.4 | 5621.81 | 737.93 | -602.24 | 952.17 | 5.66 | N 45.6 W | 24.62 |
| 144 | 6520 | 89.2 | 314.8 | 5621.95 | 744.95 | -609.36 | 962.14 | 4.00 | N 45.2 W | 23.80 |
| 145 | 6530 | 88.8 | 314.8 | 5622.13 | 751.99 | -616.46 | 972.10 | 4.00 | N 45.2 W | 23.02 |
| 146 | 6540 | 87.5 | 314.7 | 5622.45 | 759.03 | -623.56 | 982.07 | 13.04 | N 45.3 W | 22.22 |
| 147 | 6550 | 86.8 | 314.5 | 5622.95 | 766.04 | -630.67 | 992.02 | 7.28 | N 45.5 W | 21.40 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #2 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1365.06 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.62° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/22/97 | TIME: 11:07 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 148 | 6560 | 87.2 | 314.3 | 5623.47 | 773.03 | -637.80 | 1001.97 | 4.47 | N 45.7 W | 20.55 |
| 149 | 6570 | 87.7 | 314.0 | 5623.92 | 779.99 | -644.97 | 1011.92 | 5.83 | N 46.0 W | 19.65 |
| 150 | 6580 | 88.3 | 313.7 | 5624.27 | 786.91 | -652.18 | 1021.87 | 6.71 | N 46.3 W | 18.71 |
| 151 | 6590 | 88.5 | 313.7 | 5624.54 | 793.82 | -659.40 | 1031.82 | 2.00 | N 46.3 W | 17.73 |
| 152 | 6600 | 87.7 | 313.8 | 5624.88 | 800.73 | -666.62 | 1041.77 | 8.06 | N 46.2 W | 16.76 |
| 153 | 6610 | 87.1 | 313.6 | 5625.33 | 807.63 | -673.85 | 1051.71 | 6.32 | N 46.4 W | 15.79 |
| 154 | 6620 | 87.2 | 313.7 | 5625.83 | 814.53 | -681.07 | 1061.65 | 1.41 | N 46.3 W | 14.81 |
| 155 | 6630 | 86.2 | 313.7 | 5626.40 | 821.42 | -688.29 | 1071.58 | 10.00 | N 46.3 W | 13.83 |
| 156 | 6640 | 85.3 | 313.8 | 5627.14 | 828.32 | -695.49 | 1081.51 | 9.06 | N 46.2 W | 12.87 |
| 157 | 6650 | 85.3 | 313.7 | 5627.96 | 835.21 | -702.69 | 1091.43 | 1.00 | N 46.3 W | 11.90 |
| 158 | 6660 | 84.4 | 313.9 | 5628.86 | 842.10 | -709.88 | 1101.34 | 9.22 | N 46.1 W | 10.95 |
| 159 | 6670 | 83.7 | 314.0 | 5629.90 | 849.01 | -717.04 | 1111.24 | 7.07 | N 46.0 W | 10.02 |
| 160 | 6680 | 83.9 | 314.1 | 5630.98 | 855.92 | -724.19 | 1121.14 | 2.23 | N 45.9 W | 9.11 |
| 161 | 6690 | 84.4 | 314.1 | 5632.00 | 862.84 | -731.33 | 1131.05 | 5.00 | N 45.9 W | 8.21 |
| 162 | 6700 | 85.0 | 314.2 | 5632.92 | 869.78 | -738.48 | 1140.97 | 6.08 | N 45.8 W | 7.32 |
| 163 | 6710 | 85.6 | 314.2 | 5633.74 | 876.73 | -745.62 | 1150.89 | 6.00 | N 45.8 W | 6.43 |
| 164 | 6720 | 85.4 | 314.8 | 5634.52 | 883.71 | -752.73 | 1160.83 | 6.31 | N 45.2 W | 5.60 |
| 165 | 6730 | 84.6 | 315.6 | 5635.40 | 890.78 | -759.75 | 1170.76 | 11.29 | N 44.4 W | 4.88 |
| 166 | 6740 | 84.5 | 315.9 | 5636.35 | 897.91 | -766.70 | 1180.70 | 3.15 | N 44.1 W | 4.27 |
| 167 | 6750 | 84.8 | 316.1 | 5637.28 | 905.07 | -773.61 | 1190.64 | 3.60 | N 43.9 W | 3.69 |
| 168 | 6760 | 85.1 | 316.1 | 5638.16 | 912.25 | -780.52 | 1200.59 | 3.00 | N 43.9 W | 3.14 |
| 169 | 6770 | 86.0 | 315.9 | 5638.93 | 919.42 | -787.45 | 1210.54 | 9.22 | N 44.1 W | 2.56 |
| 170 | 6780 | 86.2 | 316.4 | 5639.61 | 926.62 | -794.36 | 1220.50 | 5.37 | N 43.6 W | 2.02 |
| 171 | 6790 | 85.4 | 317.5 | 5640.35 | 933.91 | -801.17 | 1230.47 | 13.58 | N 42.5 W | 1.61 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #2 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1365.06 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.62° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/22/97 | TIME: 11:07 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 172 | 6800 | 84.9 | 318.0 | 5641.19 | 941.28 | -807.87 | 1240.43 | 7.06 | N 42.0 W | 1.34 |
| 173 | 6810 | 85.2 | 318.6 | 5642.06 | 948.72 | -814.49 | 1250.39 | 6.69 | N 41.4 W | 1.16 |
| 174 | 6820 | 85.0 | 319.7 | 5642.91 | 956.26 | -821.01 | 1260.35 | 11.14 | N 40.3 W | 1.14 |
| 175 | 6830 | 84.7 | 320.7 | 5643.81 | 963.91 | -827.39 | 1270.31 | 10.40 | N 39.3 W | 1.29 |
| 176 | 6840 | 84.9 | 320.6 | 5644.71 | 971.61 | -833.70 | 1280.26 | 2.23 | N 39.4 W | 1.53 |
| 177 | 6850 | 84.8 | 320.1 | 5645.61 | 979.28 | -840.06 | 1290.22 | 5.08 | N 39.9 W | 1.71 |
| 178 | 6860 | 85.1 | 319.8 | 5646.49 | 986.90 | -846.46 | 1300.18 | 4.23 | N 40.2 W | 1.82 |
| 179 | 6870 | 85.5 | 319.7 | 5647.31 | 994.51 | -852.90 | 1310.15 | 4.12 | N 40.3 W | 1.90 |
| 180 | 6880 | 86.0 | 319.7 | 5648.05 | 1002.12 | -859.35 | 1320.12 | 5.00 | N 40.3 W | 1.97 |
| 181 | 6890 | 86.5 | 319.5 | 5648.71 | 1009.71 | -865.82 | 1330.10 | 5.38 | N 40.5 W | 2.02 |
| 182 | 6900 | 86.9 | 319.3 | 5649.28 | 1017.29 | -872.32 | 1340.08 | 4.47 | N 40.7 W | 2.04 |
| 183 | 6910 | 87.3 | 319.1 | 5649.79 | 1024.85 | -878.84 | 1350.07 | 4.47 | N 40.9 W | 2.02 |
| 184 | 6920 | 87.7 | 318.9 | 5650.22 | 1032.39 | -885.40 | 1360.06 | 4.47 | N 41.1 W | 1.97 |
| 185 | 6925 | 87.9 | 318.8 | 5650.42 | 1036.16 | -888.69 | 1365.06 | 4.47 | N 41.2 W | 1.93 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #3 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1963.27' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.20° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/28/97 | TIME: 4:14 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| TIE | 5400 | 0.4 | 103.4 | 5399.65 | 20.77 | -39.47 | -44.15 | 0.28 | S 76.6 E | 6.32 |
| 1 | 5436 | 4.0 | 125.0 | 5435.62 | 20.02 | -38.33 | -42.79 | 10.16 | S 55.0 E | 6.26 |
| 2 | 5440 | 5.4 | 123.0 | 5439.60 | 19.84 | -38.06 | -42.46 | 35.23 | S 57.0 E | 6.24 |
| 3 | 5445 | 7.2 | 121.0 | 5444.57 | 19.55 | -37.59 | -41.91 | 36.26 | S 59.0 E | 6.20 |
| 4 | 5447 | 8.1 | 121.0 | 5446.56 | 19.41 | -37.36 | -41.65 | 45.00 | S 59.0 E | 6.18 |
| 5 | 5455 | 11.7 | 120.8 | 5454.44 | 18.71 | -36.18 | -40.28 | 45.00 | S 59.2 E | 6.06 |
| 6 | 5460 | 13.8 | 120.7 | 5459.31 | 18.14 | -35.23 | -39.18 | 42.00 | S 59.3 E | 5.96 |
| 7 | 5465 | 16.0 | 120.5 | 5464.14 | 17.49 | -34.13 | -37.90 | 44.01 | S 59.5 E | 5.84 |
| 8 | 5470 | 18.3 | 120.4 | 5468.92 | 16.74 | -32.86 | -36.43 | 46.00 | S 59.6 E | 5.70 |
| 9 | 5475 | 20.4 | 120.3 | 5473.64 | 15.91 | -31.43 | -34.78 | 42.01 | S 59.7 E | 5.54 |
| 10 | 5480 | 23.1 | 120.1 | 5478.28 | 14.97 | -29.82 | -32.94 | 54.02 | S 59.9 E | 5.36 |
| 11 | 5485 | 25.3 | 120.0 | 5482.84 | 13.95 | -28.05 | -30.90 | 44.01 | S 60.0 E | 5.15 |
| 12 | 5490 | 27.5 | 119.9 | 5487.32 | 12.84 | -26.12 | -28.69 | 44.01 | S 60.1 E | 4.92 |
| 13 | 5495 | 29.6 | 119.8 | 5491.71 | 11.65 | -24.05 | -26.31 | 42.01 | S 60.2 E | 4.67 |
| 14 | 5500 | 31.6 | 119.6 | 5496.02 | 10.39 | -21.84 | -23.78 | 40.05 | S 60.4 E | 4.39 |
| 15 | 5505 | 33.6 | 119.5 | 5500.23 | 9.06 | -19.50 | -21.11 | 40.01 | S 60.5 E | 4.09 |
| 16 | 5510 | 35.9 | 119.0 | 5504.34 | 7.67 | -17.01 | -18.28 | 46.35 | S 61.0 E | 3.76 |
| 17 | 5515 | 37.8 | 118.8 | 5508.34 | 6.22 | -14.39 | -15.30 | 38.08 | S 61.2 E | 3.40 |
| 18 | 5520 | 39.8 | 118.6 | 5512.23 | 4.71 | -11.64 | -12.19 | 40.08 | S 61.4 E | 3.01 |
| 19 | 5525 | 41.9 | 118.8 | 5516.02 | 3.14 | -8.77 | -8.95 | 42.08 | S 61.2 E | 2.60 |
| 20 | 5530 | 43.9 | 119.2 | 5519.68 | 1.49 | -5.79 | -5.57 | 40.37 | S 60.8 E | 2.19 |
| 21 | 5535 | 45.8 | 120.8 | 5523.22 | -0.27 | -2.74 | -2.06 | 44.19 | S 59.2 E | 1.83 |
| 22 | 5540 | 47.7 | 122.5 | 5526.65 | -2.18 | 0.36 | 1.57 | 45.35 | S 57.5 E | 1.56 |
| 23 | 5545 | 49.8 | 124.7 | 5529.95 | -4.26 | 3.49 | 5.33 | 53.46 | S 55.3 E | 1.41 |
| 24 | 5550 | 51.7 | 126.6 | 5533.11 | -6.52 | 6.63 | 9.20 | 48.06 | S 53.4 E | 1.39 |
| 25 | 5555 | 53.1 | 128.8 | 5536.16 | -8.94 | 9.77 | 13.16 | 44.71 | S 51.2 E | 1.52 |
| 26 | 5560 | 54.7 | 129.2 | 5539.11 | -11.49 | 12.91 | 17.19 | 32.65 | S 50.8 E | 1.74 |
| 27 | 5565 | 56.2 | 128.6 | 5541.94 | -14.07 | 16.11 | 21.30 | 31.59 | S 51.4 E | 1.95 |
| 28 | 5570 | 57.6 | 126.9 | 5544.67 | -16.64 | 19.42 | 25.49 | 39.94 | S 53.1 E | 2.09 |
| 29 | 5575 | 59.2 | 124.5 | 5547.29 | -19.12 | 22.88 | 29.75 | 51.91 | S 55.5 E | 2.07 |
| 30 | 5580 | 60.8 | 122.3 | 5549.79 | -21.50 | 26.50 | 34.07 | 49.76 | S 57.7 E | 1.88 |
| 31 | 5585 | 62.5 | 119.8 | 5552.17 | -23.77 | 30.27 | 38.46 | 55.61 | S 60.2 E | 1.51 |
| 32 | 5590 | 64.0 | 118.8 | 5554.42 | -25.96 | 34.16 | 42.89 | 34.91 | S 61.2 E | 0.99 |
| 33 | 5595 | 65.1 | 119.3 | 5556.57 | -28.15 | 38.11 | 47.37 | 23.78 | S 60.7 E | 0.46 |
| 34 | 5600 | 65.8 | 121.1 | 5558.64 | -30.44 | 42.04 | 51.90 | 35.61 | S 58.9 E | 0.00 |
| 35 | 5605 | 67.0 | 123.6 | 5560.65 | -32.89 | 45.91 | 56.47 | 51.72 | S 56.4 E | -0.28 |
| 36 | 5610 | 68.3 | 126.2 | 5562.55 | -35.53 | 49.70 | 61.09 | 54.67 | S 53.8 E | -0.36 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #3 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1963.27' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.20° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/28/97 | TIME: 4:14 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 37 | 5615 | 69.1 | 128.2 | 5564.36 | -38.35 | 53.41 | 65.75 | 40.56 | S 51.8 E | -0.25 |
| 38 | 5620 | 70.4 | 129.2 | 5566.09 | -41.28 | 57.07 | 70.44 | 32.06 | S 50.8 E | -0.02 |
| 39 | 5625 | 71.9 | 128.8 | 5567.71 | -44.26 | 60.75 | 75.16 | 30.94 | S 51.2 E | 0.23 |
| 40 | 5630 | 73.7 | 126.9 | 5569.19 | -47.19 | 64.52 | 79.93 | 51.12 | S 53.1 E | 0.39 |
| 41 | 5635 | 75.7 | 124.1 | 5570.51 | -49.99 | 68.45 | 84.76 | 67.21 | S 55.9 E | 0.36 |
| 42 | 5640 | 77.4 | 123.3 | 5571.67 | -52.69 | 72.49 | 89.62 | 37.39 | S 56.7 E | 0.17 |
| 43 | 5645 | 78.5 | 123.4 | 5572.71 | -55.38 | 76.58 | 94.50 | 22.09 | S 56.6 E | -0.04 |
| 44 | 5650 | 79.5 | 124.5 | 5573.67 | -58.12 | 80.65 | 99.41 | 29.43 | S 55.5 E | -0.21 |
| 45 | 5655 | 80.4 | 125.4 | 5574.54 | -60.94 | 84.68 | 104.33 | 25.26 | S 54.6 E | -0.29 |
| 46 | 5660 | 81.4 | 125.8 | 5575.33 | -63.81 | 88.70 | 109.27 | 21.50 | S 54.2 E | -0.32 |
| 47 | 5665 | 82.3 | 125.8 | 5576.04 | -66.71 | 92.71 | 114.21 | 18.00 | S 54.2 E | -0.33 |
| 48 | 5670 | 83.8 | 126.3 | 5576.65 | -69.63 | 96.72 | 119.18 | 31.60 | S 53.7 E | -0.31 |
| 49 | 5680 | 86.6 | 127.2 | 5577.48 | -75.59 | 104.71 | 129.14 | 29.40 | S 52.8 E | -0.17 |
| 50 | 5690 | 88.6 | 127.6 | 5577.90 | -81.66 | 112.64 | 139.13 | 20.40 | S 52.4 E | 0.10 |
| 51 | 5700 | 89.7 | 128.4 | 5578.05 | -87.81 | 120.52 | 149.12 | 13.60 | S 51.6 E | 0.46 |
| 52 | 5710 | 90.9 | 128.4 | 5578.00 | -94.02 | 128.36 | 159.11 | 12.00 | S 51.6 E | 0.90 |
| 53 | 5720 | 90.5 | 128.2 | 5577.87 | -100.22 | 136.21 | 169.10 | 4.47 | S 51.8 E | 1.32 |
| 54 | 5730 | 89.3 | 127.9 | 5577.89 | -106.39 | 144.08 | 179.09 | 12.37 | S 52.1 E | 1.69 |
| 55 | 5740 | 89.5 | 127.8 | 5578.00 | -112.52 | 151.98 | 189.09 | 2.24 | S 52.2 E | 2.03 |
| 56 | 5750 | 89.7 | 127.6 | 5578.07 | -118.64 | 159.89 | 199.08 | 2.83 | S 52.4 E | 2.35 |
| 57 | 5760 | 89.3 | 127.3 | 5578.15 | -124.72 | 167.83 | 209.08 | 5.00 | S 52.7 E | 2.62 |
| 58 | 5770 | 88.7 | 126.8 | 5578.33 | -130.74 | 175.81 | 219.07 | 7.81 | S 53.2 E | 2.82 |
| 59 | 5780 | 88.0 | 126.6 | 5578.62 | -136.71 | 183.82 | 229.07 | 7.28 | S 53.4 E | 2.96 |
| 60 | 5790 | 86.4 | 125.8 | 5579.10 | -142.61 | 191.88 | 239.06 | 17.88 | S 54.2 E | 3.01 |
| 61 | 5800 | 84.5 | 125.4 | 5579.90 | -148.42 | 199.99 | 249.02 | 19.41 | S 54.6 E | 2.96 |
| 62 | 5810 | 83.0 | 124.7 | 5580.99 | -154.12 | 208.12 | 258.96 | 16.54 | S 55.3 E | 2.81 |
| 63 | 5820 | 82.1 | 124.1 | 5582.28 | -159.73 | 216.31 | 268.88 | 10.79 | S 55.9 E | 2.55 |
| 64 | 5830 | 81.8 | 123.4 | 5583.68 | -165.23 | 224.54 | 278.77 | 7.55 | S 56.6 E | 2.18 |
| 65 | 5840 | 82.1 | 123.4 | 5585.08 | -170.68 | 232.80 | 288.66 | 3.00 | S 56.6 E | 1.75 |
| 66 | 5850 | 82.6 | 123.7 | 5586.42 | -176.16 | 241.06 | 298.56 | 5.82 | S 56.3 E | 1.34 |
| 67 | 5860 | 84.6 | 124.2 | 5587.53 | -181.71 | 249.31 | 308.50 | 20.61 | S 55.8 E | 1.00 |
| 68 | 5870 | 86.2 | 124.7 | 5588.33 | -187.34 | 257.53 | 318.46 | 16.76 | S 55.3 E | 0.75 |
| 69 | 5880 | 87.7 | 125.1 | 5588.86 | -193.06 | 265.72 | 328.44 | 15.52 | S 54.9 E | 0.58 |
| 70 | 5890 | 88.5 | 125.4 | 5589.20 | -198.83 | 273.88 | 338.44 | 8.54 | S 54.6 E | 0.46 |
| 71 | 5900 | 89.9 | 125.8 | 5589.33 | -204.65 | 282.01 | 348.44 | 14.56 | S 54.2 E | 0.41 |
| 72 | 5910 | 90.9 | 125.9 | 5589.27 | -210.50 | 290.11 | 358.44 | 10.05 | S 54.1 E | 0.40 |
| 73 | 5920 | 91.2 | 125.9 | 5589.08 | -216.36 | 298.21 | 368.43 | 3.00 | S 54.1 E | 0.40 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #3 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1963.27' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.20° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/28/97 | TIME: 4:14 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 74 | 5930 | 91.2 | 125.6 | 5588.87 | -222.21 | 306.33 | 378.43 | 3.00 | S 54.4 E | 0.38 |
| 75 | 5940 | 91.2 | 125.6 | 5588.66 | -228.03 | 314.46 | 388.43 | 0.00 | S 54.4 E | 0.32 |
| 76 | 5950 | 91.6 | 125.6 | 5588.42 | -233.85 | 322.58 | 398.43 | 4.00 | S 54.4 E | 0.27 |
| 77 | 5960 | 91.9 | 126.0 | 5588.11 | -239.69 | 330.69 | 408.42 | 5.00 | S 54.0 E | 0.25 |
| 78 | 5970 | 92.5 | 126.3 | 5587.73 | -245.59 | 338.76 | 418.41 | 6.71 | S 53.7 E | 0.30 |
| 79 | 5980 | 93.5 | 126.0 | 5587.21 | -251.48 | 346.82 | 428.40 | 10.44 | S 54.0 E | 0.34 |
| 80 | 5990 | 93.9 | 126.2 | 5586.56 | -257.36 | 354.89 | 438.38 | 4.47 | S 53.8 E | 0.38 |
| 81 | 6000 | 92.8 | 125.6 | 5585.98 | -263.21 | 362.97 | 448.36 | 12.53 | S 54.4 E | 0.38 |
| 82 | 6010 | 90.9 | 125.4 | 5585.65 | -269.01 | 371.11 | 458.36 | 19.10 | S 54.6 E | 0.31 |
| 83 | 6020 | 90.0 | 125.5 | 5585.58 | -274.81 | 379.25 | 468.36 | 9.06 | S 54.5 E | 0.23 |
| 84 | 6030 | 90.6 | 125.6 | 5585.52 | -280.63 | 387.39 | 478.36 | 6.08 | S 54.4 E | 0.17 |
| 85 | 6040 | 91.9 | 125.9 | 5585.30 | -286.47 | 395.50 | 488.35 | 13.34 | S 54.1 E | 0.14 |
| 86 | 6050 | 93.0 | 125.8 | 5584.88 | -292.32 | 403.60 | 498.34 | 11.05 | S 54.2 E | 0.13 |
| 87 | 6060 | 93.4 | 126.0 | 5584.32 | -298.18 | 411.69 | 508.33 | 4.47 | S 54.0 E | 0.13 |
| 88 | 6070 | 93.5 | 126.1 | 5583.72 | -304.05 | 419.76 | 518.31 | 1.41 | S 53.9 E | 0.16 |
| 89 | 6080 | 94.0 | 126.3 | 5583.06 | -309.94 | 427.81 | 528.29 | 5.38 | S 53.7 E | 0.21 |
| 90 | 6090 | 93.9 | 126.2 | 5582.37 | -315.84 | 435.86 | 538.26 | 1.41 | S 53.8 E | 0.27 |
| 91 | 6100 | 93.2 | 126.1 | 5581.75 | -321.73 | 443.92 | 548.24 | 7.07 | S 53.9 E | 0.31 |
| 92 | 6110 | 92.9 | 125.8 | 5581.22 | -327.59 | 452.00 | 558.23 | 4.24 | S 54.2 E | 0.32 |
| 93 | 6120 | 92.9 | 125.6 | 5580.72 | -333.42 | 460.11 | 568.22 | 2.00 | S 54.4 E | 0.29 |
| 94 | 6130 | 93.1 | 125.7 | 5580.19 | -339.24 | 468.23 | 578.20 | 2.24 | S 54.3 E | 0.24 |
| 95 | 6140 | 93.6 | 126.3 | 5579.61 | -345.11 | 476.30 | 588.19 | 7.80 | S 53.7 E | 0.26 |
| 96 | 6150 | 94.3 | 126.6 | 5578.92 | -351.03 | 484.33 | 598.16 | 7.61 | S 53.4 E | 0.36 |
| 97 | 6160 | 94.3 | 126.5 | 5578.17 | -356.97 | 492.34 | 608.13 | 1.00 | S 53.5 E | 0.47 |
| 98 | 6170 | 93.9 | 126.7 | 5577.46 | -362.92 | 500.35 | 618.11 | 4.47 | S 53.3 E | 0.59 |
| 99 | 6180 | 94.5 | 126.6 | 5576.72 | -368.87 | 508.35 | 628.08 | 6.08 | S 53.4 E | 0.72 |
| 100 | 6190 | 94.2 | 126.4 | 5575.96 | -374.80 | 516.36 | 638.05 | 3.60 | S 53.6 E | 0.83 |
| 101 | 6200 | 93.3 | 126.4 | 5575.31 | -380.73 | 524.39 | 648.03 | 9.00 | S 53.6 E | 0.91 |
| 102 | 6210 | 93.1 | 126.2 | 5574.75 | -386.64 | 532.44 | 658.01 | 2.83 | S 53.8 E | 0.98 |
| 103 | 6220 | 92.4 | 125.9 | 5574.27 | -392.52 | 540.52 | 668.00 | 7.61 | S 54.1 E | 1.01 |
| 104 | 6230 | 91.1 | 125.4 | 5573.97 | -398.34 | 548.64 | 678.00 | 13.93 | S 54.6 E | 0.97 |
| 105 | 6240 | 89.7 | 125.1 | 5573.90 | -404.11 | 556.80 | 687.99 | 14.32 | S 54.9 E | 0.85 |
| 106 | 6250 | 88.7 | 124.8 | 5574.04 | -409.84 | 565.00 | 697.99 | 10.44 | S 55.2 E | 0.69 |
| 107 | 6260 | 88.2 | 124.5 | 5574.31 | -415.52 | 573.22 | 707.99 | 5.83 | S 55.5 E | 0.47 |
| 108 | 6270 | 88.1 | 124.6 | 5574.63 | -421.19 | 581.46 | 717.98 | 1.41 | S 55.4 E | 0.23 |
| 109 | 6280 | 87.7 | 124.4 | 5575.00 | -426.85 | 589.69 | 727.97 | 4.47 | S 55.6 E | -0.01 |
| 110 | 6290 | 86.8 | 124.3 | 5575.48 | -432.49 | 597.94 | 737.95 | 9.06 | S 55.7 E | -0.28 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #3 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1963.27' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.20° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/28/97 | TIME: 4:14 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 111 | 6300 | 86.3 | 124.6 | 5576.08 | -438.13 | 606.17 | 747.93 | 5.83 | S 55.4 E | -0.53 |
| 112 | 6310 | 86.2 | 124.6 | 5576.73 | -443.80 | 614.38 | 757.91 | 1.00 | S 55.4 E | -0.76 |
| 113 | 6320 | 86.7 | 124.6 | 5577.35 | -449.47 | 622.60 | 767.89 | 5.00 | S 55.4 E | -0.99 |
| 114 | 6330 | 87.4 | 124.8 | 5577.87 | -455.15 | 630.81 | 777.87 | 7.28 | S 55.2 E | -1.19 |
| 115 | 6340 | 87.9 | 124.9 | 5578.28 | -460.86 | 639.01 | 787.86 | 5.10 | S 55.1 E | -1.38 |
| 116 | 6350 | 87.9 | 124.8 | 5578.64 | -466.57 | 647.21 | 797.85 | 1.00 | S 55.2 E | -1.56 |
| 117 | 6360 | 87.2 | 124.7 | 5579.07 | -472.27 | 655.42 | 807.84 | 7.07 | S 55.3 E | -1.76 |
| 118 | 6370 | 87.2 | 124.6 | 5579.56 | -477.95 | 663.63 | 817.83 | 1.00 | S 55.4 E | -1.98 |
| 119 | 6380 | 86.9 | 124.9 | 5580.07 | -483.64 | 671.84 | 827.81 | 4.24 | S 55.1 E | -2.18 |
| 120 | 6390 | 86.4 | 125.4 | 5580.66 | -489.39 | 680.00 | 837.79 | 7.07 | S 54.6 E | -2.31 |
| 121 | 6400 | 85.6 | 125.7 | 5581.36 | -495.19 | 688.12 | 847.77 | 8.54 | S 54.3 E | -2.37 |
| 122 | 6410 | 84.9 | 125.6 | 5582.18 | -500.99 | 696.22 | 857.73 | 7.07 | S 54.4 E | -2.41 |
| 123 | 6420 | 84.2 | 125.6 | 5583.13 | -506.79 | 704.31 | 867.69 | 7.00 | S 54.4 E | -2.47 |
| 124 | 6430 | 84.0 | 125.6 | 5584.16 | -512.58 | 712.40 | 877.64 | 2.00 | S 54.4 E | -2.52 |
| 125 | 6440 | 84.0 | 125.7 | 5585.21 | -518.38 | 720.48 | 887.58 | 0.99 | S 54.3 E | -2.56 |
| 126 | 6450 | 83.8 | 125.3 | 5586.27 | -524.15 | 728.58 | 897.52 | 4.45 | S 54.7 E | -2.63 |
| 127 | 6460 | 84.0 | 125.6 | 5587.33 | -529.92 | 736.68 | 907.47 | 3.59 | S 54.4 E | -2.71 |
| 128 | 6470 | 84.1 | 125.8 | 5588.37 | -535.72 | 744.75 | 917.41 | 2.23 | S 54.2 E | -2.74 |
| 129 | 6480 | 84.1 | 125.9 | 5589.40 | -541.55 | 752.82 | 927.36 | 0.99 | S 54.1 E | -2.75 |
| 130 | 6490 | 83.6 | 126.1 | 5590.47 | -547.39 | 760.86 | 937.30 | 5.38 | S 53.9 E | -2.74 |
| 131 | 6500 | 83.8 | 126.3 | 5591.56 | -553.26 | 768.88 | 947.24 | 2.82 | S 53.7 E | -2.68 |
| 132 | 6510 | 84.7 | 126.7 | 5592.57 | -559.18 | 776.88 | 957.19 | 9.84 | S 53.3 E | -2.58 |
| 133 | 6520 | 85.2 | 126.8 | 5593.45 | -565.14 | 784.86 | 967.15 | 5.10 | S 53.2 E | -2.43 |
| 134 | 6530 | 85.4 | 127.0 | 5594.27 | -571.12 | 792.83 | 977.12 | 2.82 | S 53.0 E | -2.26 |
| 135 | 6540 | 85.6 | 127.4 | 5595.05 | -577.15 | 800.77 | 987.08 | 4.46 | S 52.6 E | -2.03 |
| 136 | 6550 | 86.8 | 128.3 | 5595.71 | -583.27 | 808.65 | 997.05 | 14.99 | S 51.7 E | -1.69 |
| 137 | 6560 | 88.1 | 128.6 | 5596.16 | -589.49 | 816.47 | 1007.03 | 13.34 | S 51.4 E | -1.25 |
| 138 | 6570 | 89.7 | 128.6 | 5596.35 | -595.72 | 824.29 | 1017.02 | 16.00 | S 51.4 E | -0.78 |
| 139 | 6580 | 90.4 | 128.1 | 5596.34 | -601.93 | 832.13 | 1027.01 | 8.60 | S 51.9 E | -0.35 |
| 140 | 6590 | 90.4 | 128.3 | 5596.27 | -608.11 | 839.99 | 1037.00 | 2.00 | S 51.7 E | 0.05 |
| 141 | 6600 | 90.7 | 128.6 | 5596.18 | -614.33 | 847.82 | 1046.99 | 4.24 | S 51.4 E | 0.50 |
| 142 | 6610 | 91.1 | 128.9 | 5596.02 | -620.59 | 855.61 | 1056.98 | 5.00 | S 51.1 E | 0.99 |
| 143 | 6620 | 91.0 | 128.7 | 5595.84 | -626.85 | 863.41 | 1066.96 | 2.24 | S 51.3 E | 1.50 |
| 144 | 6630 | 91.0 | 127.9 | 5595.66 | -633.05 | 871.25 | 1076.95 | 8.00 | S 52.1 E | 1.92 |
| 145 | 6640 | 91.1 | 126.9 | 5595.48 | -639.12 | 879.20 | 1086.95 | 10.05 | S 53.1 E | 2.18 |
| 146 | 6650 | 91.1 | 126.6 | 5595.29 | -645.10 | 887.21 | 1096.95 | 3.00 | S 53.4 E | 2.33 |
| 147 | 6660 | 91.8 | 126.7 | 5595.03 | -651.07 | 895.23 | 1106.94 | 7.07 | S 53.3 E | 2.46 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #3 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1963.27' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.20° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/28/97 | TIME: 4:14 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 148 | 6670 | 92.5 | 126.9 | 5594.66 | -657.06 | 903.23 | 1116.93 | 7.28 | S 53.1 E | 2.62 |
| 149 | 6680 | 93.2 | 127.0 | 5594.16 | -663.06 | 911.21 | 1126.92 | 7.07 | S 53.0 E | 2.80 |
| 150 | 6690 | 93.3 | 126.7 | 5593.59 | -669.05 | 919.20 | 1136.90 | 3.16 | S 53.3 E | 2.97 |
| 151 | 6700 | 93.4 | 126.6 | 5593.01 | -675.01 | 927.21 | 1146.88 | 1.41 | S 53.4 E | 3.10 |
| 152 | 6710 | 93.5 | 126.5 | 5592.41 | -680.95 | 935.23 | 1156.87 | 1.41 | S 53.5 E | 3.21 |
| 153 | 6720 | 93.5 | 126.4 | 5591.80 | -686.88 | 943.26 | 1166.85 | 1.00 | S 53.6 E | 3.30 |
| 154 | 6730 | 93.4 | 126.2 | 5591.20 | -692.79 | 951.30 | 1176.83 | 2.23 | S 53.8 E | 3.37 |
| 155 | 6740 | 93.3 | 126.2 | 5590.61 | -698.69 | 959.36 | 1186.81 | 1.00 | S 53.8 E | 3.43 |
| 156 | 6750 | 93.4 | 126.1 | 5590.03 | -704.58 | 967.42 | 1196.79 | 1.41 | S 53.9 E | 3.47 |
| 157 | 6760 | 93.6 | 126.1 | 5589.42 | -710.46 | 975.48 | 1206.77 | 2.00 | S 53.9 E | 3.51 |
| 158 | 6770 | 93.7 | 126.1 | 5588.78 | -716.34 | 983.55 | 1216.75 | 1.00 | S 53.9 E | 3.54 |
| 159 | 6780 | 93.9 | 126.1 | 5588.12 | -722.22 | 991.61 | 1226.73 | 2.00 | S 53.9 E | 3.57 |
| 160 | 6790 | 92.9 | 126.1 | 5587.52 | -728.10 | 999.67 | 1236.71 | 10.00 | S 53.9 E | 3.61 |
| 161 | 6800 | 91.8 | 125.6 | 5587.11 | -733.95 | 1007.77 | 1246.71 | 12.08 | S 54.4 E | 3.60 |
| 162 | 6810 | 91.6 | 125.5 | 5586.82 | -739.76 | 1015.91 | 1256.70 | 2.24 | S 54.5 E | 3.54 |
| 163 | 6820 | 91.2 | 125.3 | 5586.57 | -745.55 | 1024.05 | 1266.70 | 4.47 | S 54.7 E | 3.45 |
| 164 | 6830 | 90.6 | 124.8 | 5586.42 | -751.29 | 1032.24 | 1276.70 | 7.81 | S 55.2 E | 3.30 |
| 165 | 6840 | 90.1 | 124.6 | 5586.35 | -756.99 | 1040.46 | 1286.69 | 5.39 | S 55.4 E | 3.09 |
| 166 | 6850 | 89.8 | 124.6 | 5586.36 | -762.67 | 1048.69 | 1296.69 | 3.00 | S 55.4 E | 2.87 |
| 167 | 6860 | 89.6 | 124.7 | 5586.42 | -768.35 | 1056.92 | 1306.69 | 2.24 | S 55.3 E | 2.65 |
| 168 | 6870 | 89.5 | 124.7 | 5586.49 | -774.04 | 1065.14 | 1316.69 | 1.00 | S 55.3 E | 2.44 |
| 169 | 6880 | 89.5 | 124.8 | 5586.58 | -779.74 | 1073.36 | 1326.68 | 1.00 | S 55.2 E | 2.24 |
| 170 | 6890 | 89.8 | 125.1 | 5586.64 | -785.47 | 1081.55 | 1336.68 | 4.24 | S 54.9 E | 2.07 |
| 171 | 6900 | 90.3 | 125.0 | 5586.63 | -791.22 | 1089.74 | 1346.68 | 5.10 | S 55.0 E | 1.93 |
| 172 | 6910 | 89.9 | 125.1 | 5586.62 | -796.96 | 1097.93 | 1356.68 | 4.12 | S 54.9 E | 1.78 |
| 173 | 6920 | 88.6 | 125.7 | 5586.75 | -802.75 | 1106.08 | 1366.68 | 14.32 | S 54.3 E | 1.69 |
| 174 | 6930 | 88.8 | 125.8 | 5586.97 | -808.59 | 1114.19 | 1376.68 | 2.24 | S 54.2 E | 1.66 |
| 175 | 6940 | 89.4 | 126.0 | 5587.13 | -814.45 | 1122.29 | 1386.67 | 6.32 | S 54.0 E | 1.66 |
| 176 | 6950 | 90.4 | 126.2 | 5587.15 | -820.35 | 1130.37 | 1396.67 | 10.20 | S 53.8 E | 1.70 |
| 177 | 6960 | 91.0 | 126.2 | 5587.03 | -826.25 | 1138.44 | 1406.67 | 6.00 | S 53.8 E | 1.75 |
| 178 | 6970 | 90.6 | 126.3 | 5586.89 | -832.16 | 1146.50 | 1416.67 | 4.12 | S 53.7 E | 1.81 |
| 179 | 6980 | 89.5 | 126.1 | 5586.88 | -838.07 | 1154.57 | 1426.67 | 11.18 | S 53.9 E | 1.86 |
| 180 | 6990 | 89.0 | 125.7 | 5587.01 | -843.93 | 1162.67 | 1436.67 | 6.40 | S 54.3 E | 1.86 |
| 181 | 7000 | 89.2 | 125.7 | 5587.17 | -849.77 | 1170.79 | 1446.67 | 2.00 | S 54.3 E | 1.83 |
| 182 | 7010 | 88.7 | 125.7 | 5587.35 | -855.60 | 1178.91 | 1456.67 | 5.00 | S 54.3 E | 1.80 |
| 183 | 7020 | 87.9 | 125.5 | 5587.65 | -861.42 | 1187.04 | 1466.66 | 8.25 | S 54.5 E | 1.74 |
| 184 | 7030 | 87.9 | 125.2 | 5588.01 | -867.20 | 1195.19 | 1476.66 | 3.00 | S 54.8 E | 1.65 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #3 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1963.27' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.20° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/28/97 | TIME: 4:14 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 185 | 7040 | 87.7 | 124.9 | 5588.40 | -872.94 | 1203.37 | 1486.65 | 3.60 | S 55.1 E | 1.50 |
| 186 | 7050 | 87.7 | 124.5 | 5588.80 | -878.63 | 1211.58 | 1496.64 | 4.00 | S 55.5 E | 1.29 |
| 187 | 7060 | 88.2 | 124.5 | 5589.16 | -884.29 | 1219.82 | 1506.63 | 5.00 | S 55.5 E | 1.05 |
| 188 | 7070 | 88.9 | 124.7 | 5589.41 | -889.97 | 1228.05 | 1516.62 | 7.28 | S 55.3 E | 0.82 |
| 189 | 7080 | 89.5 | 124.5 | 5589.55 | -895.64 | 1236.28 | 1526.62 | 6.32 | S 55.5 E | 0.59 |
| 190 | 7090 | 89.7 | 124.6 | 5589.62 | -901.32 | 1244.51 | 1536.61 | 2.24 | S 55.4 E | 0.36 |
| 191 | 7100 | 90.1 | 124.4 | 5589.64 | -906.98 | 1252.76 | 1546.61 | 4.47 | S 55.6 E | 0.11 |
| 192 | 7110 | 90.4 | 124.5 | 5589.59 | -912.64 | 1261.00 | 1556.61 | 3.16 | S 55.5 E | -0.14 |
| 193 | 7120 | 90.6 | 124.4 | 5589.50 | -918.29 | 1269.25 | 1566.60 | 2.24 | S 55.6 E | -0.39 |
| 194 | 7130 | 90.2 | 124.6 | 5589.43 | -923.96 | 1277.49 | 1576.60 | 4.47 | S 55.4 E | -0.64 |
| 195 | 7140 | 89.4 | 125.4 | 5589.47 | -929.69 | 1285.68 | 1586.60 | 11.31 | S 54.6 E | -0.80 |
| 196 | 7150 | 89.1 | 125.5 | 5589.60 | -935.49 | 1293.83 | 1596.60 | 3.16 | S 54.5 E | -0.87 |
| 197 | 7160 | 87.9 | 125.1 | 5589.86 | -941.27 | 1301.98 | 1606.59 | 12.65 | S 54.9 E | -0.98 |
| 198 | 7170 | 86.6 | 125.0 | 5590.34 | -947.00 | 1310.16 | 1616.58 | 13.04 | S 55.0 E | -1.13 |
| 199 | 7180 | 86.4 | 124.8 | 5590.95 | -952.72 | 1318.35 | 1626.56 | 2.83 | S 55.2 E | -1.30 |
| 200 | 7190 | 86.6 | 124.6 | 5591.56 | -958.40 | 1326.55 | 1636.54 | 2.83 | S 55.4 E | -1.51 |
| 201 | 7200 | 86.6 | 124.1 | 5592.16 | -964.03 | 1334.79 | 1646.52 | 4.99 | S 55.9 E | -1.78 |
| 202 | 7210 | 86.8 | 123.7 | 5592.73 | -969.60 | 1343.08 | 1656.50 | 4.47 | S 56.3 E | -2.13 |
| 203 | 7220 | 86.9 | 123.5 | 5593.28 | -975.12 | 1351.40 | 1666.47 | 2.23 | S 56.5 E | -2.53 |
| 204 | 7230 | 87.1 | 123.3 | 5593.80 | -980.62 | 1359.73 | 1676.45 | 2.83 | S 56.7 E | -2.97 |
| 205 | 7240 | 87.3 | 123.3 | 5594.29 | -986.10 | 1368.08 | 1686.43 | 2.00 | S 56.7 E | -3.42 |
| 206 | 7250 | 87.7 | 123.5 | 5594.73 | -991.60 | 1376.42 | 1696.41 | 4.47 | S 56.5 E | -3.85 |
| 207 | 7260 | 88.3 | 124.0 | 5595.08 | -997.16 | 1384.73 | 1706.40 | 7.81 | S 56.0 E | -4.23 |
| 208 | 7270 | 89.0 | 124.8 | 5595.31 | -1002.80 | 1392.98 | 1716.39 | 10.63 | S 55.2 E | -4.49 |
| 209 | 7280 | 89.7 | 125.3 | 5595.43 | -1008.55 | 1401.17 | 1726.39 | 8.60 | S 54.7 E | -4.64 |
| 210 | 7290 | 90.1 | 125.5 | 5595.44 | -1014.34 | 1409.32 | 1736.39 | 4.47 | S 54.5 E | -4.73 |
| 211 | 7300 | 90.5 | 125.4 | 5595.39 | -1020.14 | 1417.46 | 1746.39 | 4.12 | S 54.6 E | -4.80 |
| 212 | 7310 | 90.5 | 125.3 | 5595.30 | -1025.93 | 1425.62 | 1756.39 | 1.00 | S 54.7 E | -4.90 |
| 213 | 7320 | 89.8 | 125.1 | 5595.28 | -1031.69 | 1433.79 | 1766.39 | 7.28 | S 54.9 E | -5.02 |
| 214 | 7330 | 88.9 | 125.3 | 5595.39 | -1037.45 | 1441.96 | 1776.38 | 9.22 | S 54.7 E | -5.14 |
| 215 | 7340 | 88.9 | 125.4 | 5595.58 | -1043.24 | 1450.12 | 1786.38 | 1.00 | S 54.6 E | -5.24 |
| 216 | 7350 | 88.4 | 125.9 | 5595.82 | -1049.06 | 1458.24 | 1796.38 | 7.07 | S 54.1 E | -5.28 |
| 217 | 7360 | 87.5 | 126.5 | 5596.18 | -1054.97 | 1466.31 | 1806.37 | 10.81 | S 53.5 E | -5.23 |
| 218 | 7370 | 87.4 | 126.6 | 5596.62 | -1060.92 | 1474.33 | 1816.36 | 1.41 | S 53.4 E | -5.12 |
| 219 | 7380 | 87.7 | 126.6 | 5597.05 | -1066.87 | 1482.35 | 1826.35 | 3.00 | S 53.4 E | -5.00 |
| 220 | 7390 | 87.8 | 126.0 | 5597.44 | -1072.79 | 1490.40 | 1836.34 | 6.08 | S 54.0 E | -4.93 |
| 221 | 7400 | 87.9 | 125.9 | 5597.82 | -1078.66 | 1498.49 | 1846.34 | 1.41 | S 54.1 E | -4.92 |
| 222 | 7410 | 88.1 | 125.9 | 5598.17 | -1084.52 | 1506.59 | 1856.33 | 2.00 | S 54.1 E | -4.92 |
| 223 | 7420 | 88.0 | 125.9 | 5598.51 | -1090.38 | 1514.69 | 1866.32 | 1.00 | S 54.1 E | -4.92 |
| 224 | 7430 | 88.2 | 125.9 | 5598.84 | -1096.24 | 1522.78 | 1876.32 | 2.00 | S 54.1 E | -4.92 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #3 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1963.27' | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: South 54.20° East | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 09/28/97 | TIME: 4:14 PM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 125.9

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 225 | 7440 | 88.4 | 126.3 | 5599.14 | -1102.13 | 1530.86 | 1886.31 | 4.47 | S 53.7 E | -4.88 |
| 226 | 7450 | 88.8 | 126.9 | 5599.38 | -1108.09 | 1538.88 | 1896.31 | 7.21 | S 53.1 E | -4.76 |
| 227 | 7460 | 88.8 | 126.8 | 5599.59 | -1114.08 | 1546.88 | 1906.31 | 1.00 | S 53.2 E | -4.60 |
| 228 | 7470 | 88.8 | 126.6 | 5599.80 | -1120.06 | 1554.90 | 1916.30 | 2.00 | S 53.4 E | -4.46 |
| 229 | 7480 | 89.3 | 126.9 | 5599.96 | -1126.04 | 1562.91 | 1926.30 | 5.83 | S 53.1 E | -4.31 |
| 230 | 7490 | 90.4 | 127.2 | 5599.99 | -1132.06 | 1570.89 | 1936.30 | 11.40 | S 52.8 E | -4.11 |
| 231 | 7500 | 91.5 | 127.5 | 5599.82 | -1138.13 | 1578.84 | 1946.29 | 11.40 | S 52.5 E | -3.85 |
| 232 | 7510 | 92.6 | 127.8 | 5599.47 | -1144.23 | 1586.75 | 1956.28 | 11.40 | S 52.2 E | -3.55 |
| 233 | 7517 | 93.4 | 128.0 | 5599.10 | -1148.53 | 1592.27 | 1963.27 | 11.40 | S 52.0 E | -3.30 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #4 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1534.64 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.74° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 10/03/97 | TIME: 11:11 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| TIE | 5400 | 0.4 | 103.4 | 5399.65 | 20.77 | -39.47 | 41.48 | 0.28 | S 76.6 E | -16.38 |
| 1 | 5422 | 3.2 | 306.6 | 5421.64 | 21.12 | -39.90 | 42.03 | 16.15 | N 53.4 W | -16.47 |
| 2 | 5425 | 3.9 | 306.1 | 5424.63 | 21.23 | -40.05 | 42.21 | 22.69 | N 53.9 W | -16.51 |
| 3 | 5430 | 5.4 | 307.9 | 5429.62 | 21.48 | -40.37 | 42.61 | 30.54 | N 52.1 W | -16.60 |
| 4 | 5435 | 7.1 | 306.8 | 5434.59 | 21.81 | -40.80 | 43.14 | 34.28 | N 53.2 W | -16.71 |
| 5 | 5440 | 8.6 | 302.7 | 5439.54 | 22.19 | -41.37 | 43.80 | 31.62 | N 57.3 W | -16.89 |
| 6 | 5445 | 10.1 | 298.7 | 5444.47 | 22.61 | -42.06 | 44.57 | 32.77 | N 61.4 W | -17.15 |
| 7 | 5450 | 12.2 | 294.8 | 5449.38 | 23.04 | -42.93 | 45.46 | 44.60 | N 65.3 W | -17.52 |
| 8 | 5455 | 13.6 | 290.5 | 5454.25 | 23.46 | -43.96 | 46.46 | 33.81 | N 69.5 W | -18.03 |
| 9 | 5460 | 15.2 | 286.4 | 5459.10 | 23.86 | -45.14 | 47.52 | 37.87 | N 73.6 W | -18.67 |
| 10 | 5465 | 16.8 | 283.4 | 5463.90 | 24.21 | -46.47 | 48.66 | 36.19 | N 76.7 W | -19.45 |
| 11 | 5470 | 18.4 | 278.3 | 5468.67 | 24.49 | -47.96 | 49.84 | 44.33 | N 81.7 W | -20.39 |
| 12 | 5475 | 20.1 | 274.2 | 5473.39 | 24.66 | -49.59 | 51.04 | 43.30 | N 85.8 W | -21.51 |
| 13 | 5480 | 21.7 | 279.5 | 5478.06 | 24.88 | -51.36 | 52.36 | 49.51 | N 80.5 W | -22.71 |
| 14 | 5485 | 23.4 | 282.6 | 5482.68 | 25.25 | -53.24 | 53.86 | 41.48 | N 77.4 W | -23.90 |
| 15 | 5490 | 25.4 | 284.5 | 5487.23 | 25.73 | -55.25 | 55.54 | 42.97 | N 75.5 W | -25.11 |
| 16 | 5495 | 27.2 | 286.3 | 5491.71 | 26.32 | -57.39 | 57.38 | 39.37 | N 73.7 W | -26.34 |
| 17 | 5500 | 29.2 | 288.0 | 5496.12 | 27.02 | -59.64 | 59.38 | 43.10 | N 72.0 W | -27.60 |
| 18 | 5505 | 31.0 | 289.6 | 5500.45 | 27.83 | -62.02 | 61.54 | 39.41 | N 70.4 W | -28.87 |
| 19 | 5510 | 32.9 | 291.1 | 5504.69 | 28.75 | -64.50 | 63.85 | 41.18 | N 68.9 W | -30.15 |
| 20 | 5515 | 34.3 | 292.0 | 5508.85 | 29.77 | -67.07 | 66.30 | 29.72 | N 68.0 W | -31.44 |
| 21 | 5520 | 36.0 | 292.9 | 5512.94 | 30.87 | -69.73 | 68.87 | 35.54 | N 67.1 W | -32.74 |
| 22 | 5525 | 37.8 | 293.6 | 5516.94 | 32.05 | -72.49 | 71.57 | 36.97 | N 66.4 W | -34.05 |
| 23 | 5530 | 39.5 | 294.2 | 5520.84 | 33.32 | -75.34 | 74.39 | 34.82 | N 65.8 W | -35.39 |
| 24 | 5535 | 41.2 | 294.8 | 5524.65 | 34.66 | -78.29 | 77.33 | 34.88 | N 65.2 W | -36.75 |
| 25 | 5540 | 43.0 | 295.3 | 5528.36 | 36.08 | -81.32 | 80.39 | 36.62 | N 64.7 W | -38.13 |
| 26 | 5545 | 45.0 | 295.6 | 5531.96 | 37.57 | -84.46 | 83.56 | 40.22 | N 64.4 W | -39.53 |
| 27 | 5550 | 46.7 | 296.1 | 5535.44 | 39.14 | -87.69 | 86.85 | 34.75 | N 63.9 W | -40.96 |
| 28 | 5555 | 48.6 | 296.7 | 5538.81 | 40.78 | -91.00 | 90.26 | 39.02 | N 63.3 W | -42.40 |
| 29 | 5560 | 50.4 | 297.2 | 5542.06 | 42.50 | -94.39 | 93.77 | 36.79 | N 62.8 W | -43.84 |
| 30 | 5565 | 52.3 | 297.7 | 5545.18 | 44.30 | -97.85 | 97.40 | 38.79 | N 62.3 W | -45.29 |
| 31 | 5570 | 54.1 | 298.4 | 5548.18 | 46.19 | -101.38 | 101.13 | 37.70 | N 61.6 W | -46.74 |
| 32 | 5575 | 56.0 | 299.0 | 5551.04 | 48.16 | -104.98 | 104.96 | 39.25 | N 61.0 W | -48.19 |
| 33 | 5580 | 57.6 | 299.5 | 5553.78 | 50.20 | -108.63 | 108.90 | 33.08 | N 60.5 W | -49.62 |
| 34 | 5585 | 59.0 | 300.1 | 5556.40 | 52.31 | -112.32 | 112.91 | 29.80 | N 59.9 W | -51.04 |
| 35 | 5590 | 60.3 | 301.0 | 5558.93 | 54.51 | -116.04 | 116.99 | 30.29 | N 59.0 W | -52.43 |
| 36 | 5595 | 61.6 | 302.3 | 5561.36 | 56.80 | -119.76 | 121.16 | 34.53 | N 57.7 W | -53.75 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #4 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1534.64 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.74° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 10/03/97 | TIME: 11:11 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 37 | 5600 | 63.0 | 303.9 | 5563.68 | 59.22 | -123.46 | 125.41 | 39.83 | N 56.1 W | -54.99 |
| 38 | 5605 | 64.1 | 305.7 | 5565.91 | 61.77 | -127.14 | 129.74 | 39.02 | N 54.3 W | -56.11 |
| 39 | 5610 | 65.6 | 308.0 | 5568.04 | 64.49 | -130.76 | 134.16 | 51.32 | N 52.0 W | -57.08 |
| 40 | 5615 | 66.7 | 309.4 | 5570.06 | 67.35 | -134.33 | 138.65 | 33.76 | N 50.6 W | -57.92 |
| 41 | 5620 | 67.7 | 310.6 | 5571.99 | 70.31 | -137.86 | 143.20 | 29.82 | N 49.4 W | -58.67 |
| 42 | 5625 | 69.1 | 311.8 | 5573.84 | 73.37 | -141.36 | 147.81 | 35.80 | N 48.2 W | -59.32 |
| 43 | 5630 | 70.7 | 312.8 | 5575.55 | 76.53 | -144.83 | 152.47 | 37.10 | N 47.2 W | -59.89 |
| 44 | 5635 | 72.4 | 313.6 | 5577.14 | 79.78 | -148.29 | 157.18 | 37.23 | N 46.4 W | -60.40 |
| 45 | 5640 | 74.2 | 314.4 | 5578.57 | 83.11 | -151.73 | 161.95 | 39.13 | N 45.6 W | -60.84 |
| 46 | 5645 | 75.6 | 315.2 | 5579.88 | 86.51 | -155.16 | 166.76 | 31.98 | N 44.8 W | -61.22 |
| 47 | 5650 | 77.1 | 316.0 | 5581.06 | 89.98 | -158.56 | 171.61 | 33.79 | N 44.0 W | -61.53 |
| 48 | 5655 | 78.5 | 316.7 | 5582.11 | 93.52 | -161.93 | 176.49 | 31.16 | N 43.3 W | -61.78 |
| 49 | 5660 | 79.9 | 317.5 | 5583.05 | 97.11 | -165.27 | 181.40 | 32.11 | N 42.5 W | -61.97 |
| 50 | 5665 | 81.4 | 318.3 | 5583.86 | 100.77 | -168.58 | 186.33 | 33.90 | N 41.7 W | -62.09 |
| 51 | 5670 | 82.9 | 319.0 | 5584.54 | 104.49 | -171.85 | 191.28 | 33.05 | N 41.0 W | -62.15 |
| 52 | 5675 | 84.4 | 319.7 | 5585.10 | 108.26 | -175.09 | 196.25 | 33.07 | N 40.3 W | -62.14 |
| 53 | 5680 | 85.6 | 320.3 | 5585.53 | 112.08 | -178.29 | 201.23 | 26.81 | N 39.7 W | -62.08 |
| 54 | 5685 | 87.6 | 321.4 | 5585.83 | 115.95 | -181.44 | 206.22 | 45.63 | N 38.6 W | -61.95 |
| 55 | 5690 | 89.1 | 321.7 | 5585.97 | 119.86 | -184.55 | 211.22 | 30.59 | N 38.3 W | -61.75 |
| 56 | 5695 | 90.0 | 322.4 | 5586.01 | 123.80 | -187.63 | 216.21 | 22.80 | N 37.6 W | -61.51 |
| 57 | 5700 | 90.8 | 323.0 | 5585.98 | 127.78 | -190.65 | 221.20 | 20.00 | N 37.0 W | -61.22 |
| 58 | 5705 | 91.1 | 323.6 | 5585.89 | 131.79 | -193.64 | 226.19 | 13.41 | N 36.4 W | -60.87 |
| 59 | 5710 | 91.1 | 324.2 | 5585.80 | 135.83 | -196.59 | 231.17 | 12.00 | N 35.8 W | -60.47 |
| 60 | 5720 | 91.0 | 324.9 | 5585.62 | 143.97 | -202.39 | 241.13 | 7.07 | N 35.1 W | -59.55 |
| 61 | 5730 | 90.8 | 325.4 | 5585.46 | 152.18 | -208.10 | 251.07 | 5.38 | N 34.6 W | -58.53 |
| 62 | 5740 | 90.7 | 325.4 | 5585.33 | 160.41 | -213.78 | 261.02 | 1.00 | N 34.6 W | -57.47 |
| 63 | 5750 | 91.1 | 325.4 | 5585.17 | 168.64 | -219.46 | 270.96 | 4.00 | N 34.6 W | -56.41 |
| 64 | 5760 | 91.8 | 325.6 | 5584.92 | 176.88 | -225.12 | 280.90 | 7.28 | N 34.4 W | -55.33 |
| 65 | 5770 | 92.3 | 325.7 | 5584.56 | 185.13 | -230.76 | 290.83 | 5.10 | N 34.3 W | -54.22 |
| 66 | 5780 | 92.4 | 326.1 | 5584.15 | 193.40 | -236.36 | 300.75 | 4.12 | N 33.9 W | -53.07 |
| 67 | 5790 | 92.6 | 325.8 | 5583.71 | 201.68 | -241.95 | 310.68 | 3.60 | N 34.2 W | -51.92 |
| 68 | 5800 | 92.8 | 326.0 | 5583.24 | 209.95 | -247.55 | 320.60 | 2.83 | N 34.0 W | -50.77 |
| 69 | 5810 | 92.5 | 325.9 | 5582.78 | 218.23 | -253.15 | 330.52 | 3.16 | N 34.1 W | -49.61 |
| 70 | 5820 | 91.9 | 325.8 | 5582.40 | 226.50 | -258.76 | 340.45 | 6.08 | N 34.2 W | -48.47 |
| 71 | 5830 | 91.8 | 325.5 | 5582.07 | 234.75 | -264.40 | 350.38 | 3.16 | N 34.5 W | -47.37 |
| 72 | 5840 | 92.3 | 325.5 | 5581.72 | 242.99 | -270.06 | 360.32 | 5.00 | N 34.5 W | -46.29 |
| 73 | 5850 | 92.8 | 325.6 | 5581.27 | 251.22 | -275.71 | 370.25 | 5.10 | N 34.4 W | -45.20 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #4 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1534.64 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.74° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 10/03/97 | TIME: 11:11 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 74 | 5860 | 93.5 | 326.0 | 5580.72 | 259.48 | -281.32 | 380.17 | 8.06 | N 34.0 W | -44.07 |
| 75 | 5870 | 93.6 | 326.0 | 5580.10 | 267.76 | -286.90 | 390.08 | 1.00 | N 34.0 W | -42.91 |
| 76 | 5880 | 93.4 | 326.4 | 5579.49 | 276.05 | -292.45 | 399.99 | 4.47 | N 33.6 W | -41.71 |
| 77 | 5890 | 92.7 | 327.6 | 5578.96 | 284.43 | -297.89 | 409.89 | 13.88 | N 32.4 W | -40.37 |
| 78 | 5900 | 92.4 | 327.2 | 5578.51 | 292.84 | -303.27 | 419.78 | 5.00 | N 32.8 W | -38.96 |
| 79 | 5910 | 91.9 | 327.1 | 5578.14 | 301.24 | -308.69 | 429.68 | 5.10 | N 32.9 W | -37.60 |
| 80 | 5920 | 90.6 | 327.0 | 5577.92 | 309.63 | -314.13 | 439.58 | 13.04 | N 33.0 W | -36.25 |
| 81 | 5930 | 89.4 | 327.4 | 5577.92 | 318.03 | -319.55 | 449.49 | 12.65 | N 32.6 W | -34.87 |
| 82 | 5940 | 88.7 | 327.3 | 5578.09 | 326.45 | -324.94 | 459.39 | 7.07 | N 32.7 W | -33.47 |
| 83 | 5950 | 88.9 | 327.2 | 5578.30 | 334.86 | -330.35 | 469.29 | 2.24 | N 32.8 W | -32.09 |
| 84 | 5960 | 89.2 | 327.1 | 5578.46 | 343.26 | -335.78 | 479.19 | 3.16 | N 32.9 W | -30.72 |
| 85 | 5970 | 89.3 | 327.2 | 5578.59 | 351.66 | -341.20 | 489.10 | 1.41 | N 32.8 W | -29.36 |
| 86 | 5980 | 89.0 | 327.0 | 5578.74 | 360.05 | -346.63 | 499.01 | 3.61 | N 33.0 W | -28.00 |
| 87 | 5990 | 88.8 | 326.9 | 5578.93 | 368.43 | -352.08 | 508.92 | 2.24 | N 33.1 W | -26.67 |
| 88 | 6000 | 88.8 | 326.9 | 5579.14 | 376.81 | -357.54 | 518.83 | 0.00 | N 33.1 W | -25.35 |
| 89 | 6010 | 88.9 | 327.0 | 5579.34 | 385.19 | -363.00 | 528.73 | 1.41 | N 33.0 W | -24.02 |
| 90 | 6020 | 89.1 | 327.0 | 5579.52 | 393.58 | -368.44 | 538.64 | 2.00 | N 33.0 W | -22.68 |
| 91 | 6030 | 89.1 | 326.5 | 5579.68 | 401.94 | -373.92 | 548.56 | 5.00 | N 33.5 W | -21.38 |
| 92 | 6040 | 89.2 | 325.4 | 5579.82 | 410.22 | -379.52 | 558.49 | 11.04 | N 34.6 W | -20.22 |
| 93 | 6050 | 89.5 | 324.4 | 5579.94 | 418.40 | -385.27 | 568.44 | 10.44 | N 35.6 W | -19.25 |
| 94 | 6060 | 89.2 | 323.9 | 5580.05 | 426.51 | -391.13 | 578.40 | 5.83 | N 36.1 W | -18.40 |
| 95 | 6070 | 88.4 | 323.5 | 5580.26 | 434.56 | -397.05 | 588.37 | 8.94 | N 36.5 W | -17.64 |
| 96 | 6080 | 87.8 | 323.2 | 5580.59 | 442.58 | -403.01 | 598.34 | 6.71 | N 36.8 W | -16.93 |
| 97 | 6090 | 88.0 | 323.0 | 5580.96 | 450.57 | -409.01 | 608.31 | 2.83 | N 37.0 W | -16.27 |
| 98 | 6100 | 88.1 | 322.9 | 5581.30 | 458.55 | -415.03 | 618.29 | 1.41 | N 37.1 W | -15.63 |
| 99 | 6110 | 88.6 | 322.5 | 5581.59 | 466.50 | -421.09 | 628.26 | 6.40 | N 37.5 W | -15.04 |
| 100 | 6120 | 89.1 | 322.5 | 5581.79 | 474.43 | -427.18 | 638.25 | 5.00 | N 37.5 W | -14.48 |
| 101 | 6130 | 89.3 | 323.2 | 5581.93 | 482.40 | -433.22 | 648.23 | 7.28 | N 36.8 W | -13.86 |
| 102 | 6140 | 89.3 | 323.7 | 5582.05 | 490.44 | -439.17 | 658.20 | 5.00 | N 36.3 W | -13.14 |
| 103 | 6150 | 89.9 | 324.0 | 5582.12 | 498.51 | -445.07 | 668.17 | 6.71 | N 36.0 W | -12.34 |
| 104 | 6160 | 90.3 | 324.1 | 5582.10 | 506.61 | -450.94 | 678.13 | 4.12 | N 35.9 W | -11.52 |
| 105 | 6170 | 90.6 | 324.2 | 5582.02 | 514.71 | -456.80 | 688.10 | 3.16 | N 35.8 W | -10.67 |
| 106 | 6180 | 91.0 | 324.4 | 5581.88 | 522.83 | -462.63 | 698.06 | 4.47 | N 35.6 W | -9.80 |
| 107 | 6190 | 90.3 | 324.4 | 5581.77 | 530.96 | -468.45 | 708.02 | 7.00 | N 35.6 W | -8.91 |
| 108 | 6200 | 89.4 | 324.6 | 5581.80 | 539.10 | -474.26 | 717.98 | 9.22 | N 35.4 W | -8.00 |
| 109 | 6210 | 89.0 | 324.5 | 5581.94 | 547.25 | -480.06 | 727.93 | 4.12 | N 35.5 W | -7.09 |
| 110 | 6220 | 89.3 | 324.3 | 5582.08 | 555.38 | -485.88 | 737.89 | 3.61 | N 35.7 W | -6.20 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #4 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1534.64 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.74° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 10/03/97 | TIME: 11:11 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 111 | 6230 | 89.9 | 324.4 | 5582.15 | 563.50 | -491.71 | 747.85 | 6.08 | N 35.6 W | -5.32 |
| 112 | 6240 | 90.1 | 324.5 | 5582.15 | 571.64 | -497.52 | 757.81 | 2.24 | N 35.5 W | -4.42 |
| 113 | 6250 | 90.4 | 324.4 | 5582.11 | 579.78 | -503.34 | 767.77 | 3.16 | N 35.6 W | -3.52 |
| 114 | 6260 | 88.8 | 323.6 | 5582.18 | 587.87 | -509.21 | 777.74 | 17.89 | N 36.4 W | -2.71 |
| 115 | 6270 | 86.7 | 322.8 | 5582.57 | 595.87 | -515.20 | 787.71 | 22.47 | N 37.2 W | -2.03 |
| 116 | 6280 | 85.7 | 322.2 | 5583.23 | 603.78 | -521.27 | 797.67 | 11.66 | N 37.8 W | -1.47 |
| 117 | 6290 | 85.4 | 321.9 | 5584.01 | 611.64 | -527.40 | 807.63 | 4.24 | N 38.1 W | -0.99 |
| 118 | 6300 | 85.1 | 321.9 | 5584.84 | 619.49 | -533.55 | 817.58 | 3.00 | N 38.1 W | -0.54 |
| 119 | 6310 | 85.3 | 321.8 | 5585.68 | 627.32 | -539.71 | 827.54 | 2.23 | N 38.2 W | -0.10 |
| 120 | 6320 | 85.7 | 321.9 | 5586.46 | 635.16 | -545.87 | 837.50 | 4.12 | N 38.1 W | 0.35 |
| 121 | 6330 | 85.9 | 321.2 | 5587.19 | 642.97 | -552.07 | 847.46 | 7.26 | N 38.8 W | 0.74 |
| 122 | 6340 | 85.9 | 321.4 | 5587.91 | 650.76 | -558.30 | 857.43 | 1.99 | N 38.6 W | 1.09 |
| 123 | 6350 | 85.5 | 320.6 | 5588.66 | 658.51 | -564.58 | 867.40 | 8.92 | N 39.4 W | 1.38 |
| 124 | 6360 | 84.7 | 319.9 | 5589.51 | 666.17 | -570.95 | 877.36 | 10.61 | N 40.1 W | 1.55 |
| 125 | 6370 | 84.5 | 319.4 | 5590.45 | 673.76 | -577.40 | 887.32 | 5.36 | N 40.6 W | 1.61 |
| 126 | 6380 | 84.5 | 319.3 | 5591.41 | 681.31 | -583.88 | 897.27 | 1.00 | N 40.7 W | 1.62 |
| 127 | 6390 | 84.9 | 319.1 | 5592.33 | 688.84 | -590.39 | 907.23 | 4.47 | N 40.9 W | 1.60 |
| 128 | 6400 | 85.7 | 319.6 | 5593.15 | 696.41 | -596.88 | 917.19 | 9.43 | N 40.4 W | 1.61 |
| 129 | 6410 | 86.6 | 319.6 | 5593.83 | 704.00 | -603.35 | 927.17 | 9.00 | N 40.4 W | 1.66 |
| 130 | 6420 | 87.7 | 319.2 | 5594.32 | 711.59 | -609.85 | 937.16 | 11.70 | N 40.8 W | 1.68 |
| 131 | 6430 | 88.3 | 320.0 | 5594.67 | 719.20 | -616.32 | 947.15 | 10.00 | N 40.0 W | 1.73 |
| 132 | 6440 | 88.8 | 320.3 | 5594.92 | 726.87 | -622.73 | 957.15 | 5.83 | N 39.7 W | 1.88 |
| 133 | 6450 | 90.1 | 319.5 | 5595.02 | 734.52 | -629.17 | 967.15 | 15.26 | N 40.5 W | 1.98 |
| 134 | 6460 | 90.2 | 319.9 | 5594.99 | 742.15 | -635.64 | 977.15 | 4.12 | N 40.1 W | 2.05 |
| 135 | 6470 | 90.6 | 319.9 | 5594.92 | 749.80 | -642.08 | 987.15 | 4.00 | N 40.1 W | 2.16 |
| 136 | 6480 | 91.1 | 320.8 | 5594.78 | 757.50 | -648.46 | 997.14 | 10.29 | N 39.2 W | 2.34 |
| 137 | 6490 | 91.5 | 320.6 | 5594.55 | 765.23 | -654.79 | 1007.14 | 4.47 | N 39.4 W | 2.59 |
| 138 | 6500 | 91.6 | 320.5 | 5594.28 | 772.95 | -661.14 | 1017.13 | 1.41 | N 39.5 W | 2.80 |
| 139 | 6510 | 91.6 | 320.6 | 5594.00 | 780.67 | -667.49 | 1027.12 | 1.00 | N 39.4 W | 3.02 |
| 140 | 6520 | 91.2 | 320.3 | 5593.76 | 788.38 | -673.86 | 1037.12 | 5.00 | N 39.7 W | 3.22 |
| 141 | 6530 | 91.5 | 319.8 | 5593.52 | 796.04 | -680.28 | 1047.12 | 5.83 | N 40.2 W | 3.35 |
| 142 | 6540 | 91.6 | 319.1 | 5593.25 | 803.64 | -686.78 | 1057.11 | 7.07 | N 40.9 W | 3.38 |
| 143 | 6550 | 91.5 | 320.2 | 5592.98 | 811.26 | -693.25 | 1067.11 | 11.04 | N 39.8 W | 3.44 |
| 144 | 6560 | 91.8 | 320.1 | 5592.69 | 818.93 | -699.66 | 1077.10 | 3.16 | N 39.9 W | 3.59 |
| 145 | 6570 | 93.0 | 320.2 | 5592.27 | 826.60 | -706.06 | 1087.09 | 12.04 | N 39.8 W | 3.74 |
| 146 | 6580 | 93.5 | 320.3 | 5591.71 | 834.28 | -712.44 | 1097.08 | 5.10 | N 39.7 W | 3.90 |
| 147 | 6590 | 93.6 | 319.9 | 5591.09 | 841.93 | -718.84 | 1107.06 | 4.12 | N 40.1 W | 4.04 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #4 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1534.64 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.74° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 10/03/97 | TIME: 11:11 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 148 | 6600 | 93.9 | 319.6 | 5590.43 | 849.55 | -725.29 | 1117.03 | 4.24 | N 40.4 W | 4.12 |
| 149 | 6610 | 94.1 | 318.7 | 5589.73 | 857.09 | -731.82 | 1127.01 | 9.20 | N 41.3 W | 4.10 |
| 150 | 6620 | 94.0 | 318.8 | 5589.03 | 864.59 | -738.39 | 1136.98 | 1.41 | N 41.2 W | 4.00 |
| 151 | 6630 | 93.7 | 318.6 | 5588.36 | 872.09 | -744.98 | 1146.96 | 3.60 | N 41.4 W | 3.90 |
| 152 | 6640 | 93.4 | 318.7 | 5587.74 | 879.58 | -751.57 | 1156.94 | 3.16 | N 41.3 W | 3.78 |
| 153 | 6650 | 93.2 | 318.6 | 5587.16 | 887.08 | -758.17 | 1166.92 | 2.24 | N 41.4 W | 3.67 |
| 154 | 6660 | 93.1 | 318.6 | 5586.61 | 894.57 | -764.77 | 1176.91 | 1.00 | N 41.4 W | 3.55 |
| 155 | 6670 | 92.9 | 318.4 | 5586.09 | 902.05 | -771.39 | 1186.89 | 2.83 | N 41.6 W | 3.41 |
| 156 | 6680 | 92.6 | 318.6 | 5585.61 | 909.53 | -778.01 | 1196.88 | 3.60 | N 41.4 W | 3.27 |
| 157 | 6690 | 92.7 | 318.7 | 5585.15 | 917.03 | -784.61 | 1206.87 | 1.41 | N 41.3 W | 3.15 |
| 158 | 6700 | 92.9 | 318.4 | 5584.66 | 924.51 | -791.22 | 1216.86 | 3.60 | N 41.6 W | 3.02 |
| 159 | 6710 | 93.0 | 318.4 | 5584.14 | 931.98 | -797.85 | 1226.84 | 1.00 | N 41.6 W | 2.87 |
| 160 | 6720 | 92.8 | 318.0 | 5583.64 | 939.43 | -804.50 | 1236.83 | 4.47 | N 42.0 W | 2.68 |
| 161 | 6730 | 91.2 | 318.6 | 5583.29 | 946.89 | -811.15 | 1246.82 | 17.09 | N 41.4 W | 2.50 |
| 162 | 6740 | 89.5 | 318.9 | 5583.23 | 954.41 | -817.75 | 1256.82 | 17.26 | N 41.1 W | 2.40 |
| 163 | 6750 | 90.1 | 319.1 | 5583.26 | 961.95 | -824.31 | 1266.82 | 6.32 | N 40.9 W | 2.35 |
| 164 | 6760 | 91.0 | 318.6 | 5583.17 | 969.48 | -830.89 | 1276.82 | 10.30 | N 41.4 W | 2.27 |
| 165 | 6770 | 91.1 | 318.8 | 5582.98 | 976.99 | -837.48 | 1286.81 | 2.24 | N 41.2 W | 2.17 |
| 166 | 6780 | 91.4 | 319.0 | 5582.77 | 984.53 | -844.06 | 1296.81 | 3.61 | N 41.0 W | 2.10 |
| 167 | 6790 | 91.6 | 319.2 | 5582.50 | 992.08 | -850.60 | 1306.81 | 2.83 | N 40.8 W | 2.06 |
| 168 | 6800 | 91.3 | 319.3 | 5582.25 | 999.66 | -857.13 | 1316.81 | 3.16 | N 40.7 W | 2.06 |
| 169 | 6810 | 91.1 | 319.2 | 5582.04 | 1007.23 | -863.65 | 1326.80 | 2.24 | N 40.8 W | 2.05 |
| 170 | 6820 | 90.7 | 318.8 | 5581.88 | 1014.78 | -870.21 | 1336.80 | 5.66 | N 41.2 W | 1.99 |
| 171 | 6830 | 89.9 | 318.4 | 5581.83 | 1022.28 | -876.83 | 1346.80 | 8.94 | N 41.6 W | 1.87 |
| 172 | 6840 | 89.8 | 318.1 | 5581.86 | 1029.74 | -883.49 | 1356.80 | 3.16 | N 41.9 W | 1.69 |
| 173 | 6850 | 90.1 | 318.0 | 5581.87 | 1037.17 | -890.17 | 1366.80 | 3.16 | N 42.0 W | 1.47 |
| 174 | 6860 | 90.2 | 318.1 | 5581.84 | 1044.61 | -896.86 | 1376.79 | 1.41 | N 41.9 W | 1.25 |
| 175 | 6870 | 90.3 | 317.9 | 5581.80 | 1052.04 | -903.55 | 1386.79 | 2.24 | N 42.1 W | 1.03 |
| 176 | 6880 | 90.3 | 317.9 | 5581.74 | 1059.46 | -910.25 | 1396.79 | 0.00 | N 42.1 W | 0.78 |
| 177 | 6890 | 90.2 | 318.2 | 5581.70 | 1066.90 | -916.94 | 1406.79 | 3.16 | N 41.8 W | 0.56 |
| 178 | 6900 | 90.3 | 318.1 | 5581.66 | 1074.35 | -923.61 | 1416.78 | 1.41 | N 41.9 W | 0.36 |
| 179 | 6910 | 90.3 | 318.6 | 5581.60 | 1081.82 | -930.25 | 1426.78 | 5.00 | N 41.4 W | 0.20 |
| 180 | 6920 | 89.0 | 318.8 | 5581.67 | 1089.33 | -936.85 | 1436.78 | 13.15 | N 41.2 W | 0.09 |
| 181 | 6930 | 87.6 | 318.6 | 5581.96 | 1096.84 | -943.45 | 1446.78 | 14.14 | N 41.4 W | -0.01 |
| 182 | 6940 | 86.9 | 318.7 | 5582.44 | 1104.34 | -950.05 | 1456.76 | 7.07 | N 41.3 W | -0.13 |
| 183 | 6950 | 86.7 | 318.9 | 5583.00 | 1111.85 | -956.62 | 1466.75 | 2.83 | N 41.1 W | -0.21 |
| 184 | 6960 | 86.7 | 318.9 | 5583.58 | 1119.38 | -963.19 | 1476.73 | 0.00 | N 41.1 W | -0.28 |

**PHOENIX DRILLING SERVICES, INC.**

# SURVEY CALCULATION PROGRAM

v1.00.01

| | | | |
|---|---|---|---|
| OPERATOR: | TEXACO E & P, INC. | PHOENIX COORDINATORS | |
| WELL: | Aneth Unit F #325 Leg #4 | Lou Holder | |
| LOCATION: | San Juan County, Utah | David Sparks | |
| JOB NUMBER: | 173180 | Lonnie Lee | |
| COMMENTS: | | | |
| Tie in to Scientific Finder Gyro Survey @ 5400'. | | MAG DEC.(-/+) | 12.3 |
| Horizontal Displacement: 1534.64 feet | | GRID CORR.(-/+) | 0.0 |
| Displacement Bearing: North 40.74° West | | TOTAL CORR.(-/+) | 12.3 |
| DATE: 10/03/97 | TIME: 11:11 AM | TRUE TO GRID | |

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 319.3

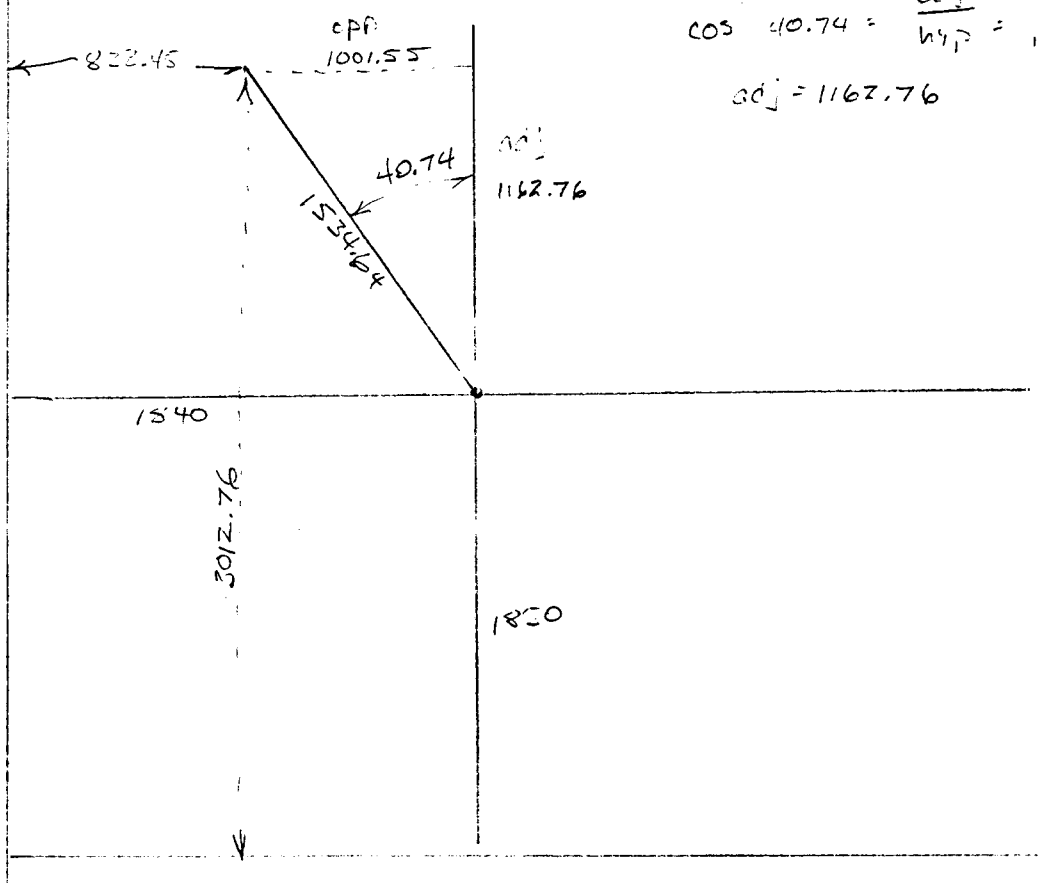
| SUR # | MD | INC | TRUE AZM | TVD | N-S | E-W | SECT | DLS/ 100 | TARGET TRACKING TO CENTER QUADRANT DIRECTION | RIGHT(+) LEFT(-) |
|---|---|---|---|---|---|---|---|---|---|---|
| 185 | 6970 | 86.4 | 318.7 | 5584.18 | 1126.89 | -969.76 | 1486.71 | 3.60 | N 41.3 W | -0.37 |
| 186 | 6980 | 86.4 | 319.0 | 5584.81 | 1134.40 | -976.33 | 1496.69 | 2.99 | N 41.0 W | -0.45 |
| 187 | 6990 | 86.6 | 318.4 | 5585.42 | 1141.90 | -982.92 | 1506.67 | 6.31 | N 41.6 W | -0.55 |
| 188 | 6992 | 86.7 | 318.4 | 5585.53 | 1143.39 | -984.24 | 1508.67 | 5.00 | N 41.6 W | -0.58 |
| 189 | 7008 | 87.5 | 318.4 | 5586.34 | 1155.34 | -994.85 | 1524.65 | 5.00 | N 41.6 W | -0.83 |
| 190 | 7018 | 88.0 | 318.4 | 5586.74 | 1162.82 | -1001.49 | 1534.64 | 5.00 | N 41.6 W | -0.99 |

$\sin 40.74 = \frac{opp}{hyp} = \frac{opp}{1534.64}$

opp = 1001.55

$\cos 40.74 = \frac{adj}{hyp} = \frac{adj}{1534.64}$

adj = 1162.76



12/19/97
JRB

# *DRILLED FOOTAGE CALCULATION FOR DIRECTIONAL AND HORIZONTAL WELLS*

**Well Name:** **Aneth Unit F325**
**Surface Location:** **1850 ' FSL, 1840' FWL, Sec. 25,**

| | |
|---|---|
| First leg description: | Leg #1 |
| KOP MD: | 5400.00 |
| KOP TVD: | 5399.65 |
| EOL MD: | 7150.00 |
| EOL TVD: | 5651.64 |
| Footage drilled: | 1750.00 |
| Second leg description: | Leg #2 |
| KOP MD: | 5400.00 |
| KOP TVD: | 5399.65 |
| EOL MD: | 6925.00 |
| EOL TVD: | 5650.42 |
| Footage drilled: | 1525.00 |
| Third leg description: | Leg #3 |
| KOP MD: | 5400.00 |
| KOP TVD: | 5399.65 |
| EOL MD: | 7517.00 |
| EOL TVD: | 5599.10 |
| Footage drilled: | 2117.00 |
| Fourth leg description: | Leg #4 |
| KOP MD: | 5400.00 |
| KOP TVD: | 5399.65 |
| EOL MD: | 7018.00 |
| EOL TVD: | 5586.74 |
| Footage drilled: | 1618.00 |
| Fifth leg description: | |
| KOP MD: | |
| KOP TVD: | |
| EOL MD: | |
| EOL TVD: | |
| Footage drilled: | |

| | |
|---|---|
| ***Total Footage Drilled (MD):*** | ***7010.00*** |
| ***Deepest point (TVD):*** | ***5668.96*** |

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
DEC 22 1997
DIV. OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT --" for such proposals

5. Lease Designation and Serial No.
I-149-IND-8838

6. If Indian, Alottee or Tribe Name
NAVAJO TRIBE

7. If Unit or CA, Agreement Designation
ANETH UNIT

SUBMIT IN TRIPLICATE

1. Type of Well: ☑ OIL WELL ☐ GAS WELL ☐ OTHER

8. Well Name and Number
ANETH UNIT
F325

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION, INC.

3. Address and Telephone No.
3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397

9. API Well No.
4303730237

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit Letter K : 1850 Feet From The SOUTH Line and 1840 Feet From The WEST Line Section 25 Township T40S Range R24E

10. Field and Pool, Exploratory Area
DESERT CREEK

11. County or Parish, State
SAN JUAN , UTAH

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| ☐ Notice of Intent | ☐ Abandonment | ☐ Change of Plans |
| ☑ Subsequent Report | ☐ Recompletion | ☐ New Construction |
| ☐ Final Abandonment Notice | ☐ Plugging Back | ☐ Non-Routine Fracturing |
| | ☐ Casing Repair | ☐ Water Shut-Off |
| | ☐ Atlering Casing | ☐ Conversion to Injection |
| | ☑ OTHER: WORKOVER & ACID | ☐ Dispose Water |

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. 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,)*.

***** THIS SUNDRY REPORT IS FOR UTAH SEVERANCE TAX CALCULATION INFORMATION PURPOSES ONLY *****

TEXACO E. & P., INC. HAS COMPLETED SIDETRACKING AND DRILLING QUAD LATERAL HORIZONTAL SECTIONS IN THE DESERT CREEK FORMATION OF THE SUBJECT WELL.

9/9/97 MIRUSU. SET PACKER @ 5507'
9/9 - 10/5/97 RU AND MILLED WINDOW FOR LEG #1 FROM 5460' - 5467', LEG #2 FROM 5436'-5442', LEG #3 FROM 5426'-5436', LEG #4 FROM 5413'-5422'.

DRILLED TO BOTTOM HOLE LOCATIONS AS FOLLOWS:

L. SOUTHEAST LATERAL #1: 947' FSL & 3089' FWL, SEC. 25, T40S, R24E (MD=7150')(TVD=5652')
U. SOUTHEAST LATERAL #3: 702' FSL & 3432' FWL, SEC. 25, T40S, R24E(MD=7517')(TVD=5599')
L. NORTHWEST LATERAL #2: 2886' FSL & 951' FWL, SEC. 25, T40S, R24E(MD=6900)(TVD=5649')
U. NORTHWEST LATERAL #4: 3013' FSL & 839' FWL, SEC. 25, T40S, R24E(MD=7018)(TVD=5587')

10/12 - 10/26/97 RU & ACIDIZED - LEG #1 WITH 5150 GALS 20% HCL & 15400 GALS 20% SXE, Leg #2 WITH 4300 GALS 20% HCL & 12950 GALS 20% SXE, LEG #3 WITH 6850 GALS 20% HCL AND 20550 GALS 20% SXE, LEG #4 WITH 5000 GALS 20% HCL & 14920 GALS 20% SXE

10/28/97 TIH WITH 171 JTS OF 2 7/8' TBG. AND SET SUB PUMP @ 5383'. PUT ON PRODUCTION TEST
10/31/97 TOOK OFF TEST & PUT ON PRODUCTION

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

SIGNATURE Rached Hindi TITLE Senior Engineer DATE 12/15/97

TYPE OR PRINT NAME Rached Hindi

(This space for Federal or State office use)

APPROVED

CONDITIONS OF APPROVAL, IF ANY: ____ TITLE _____ DATE _____

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

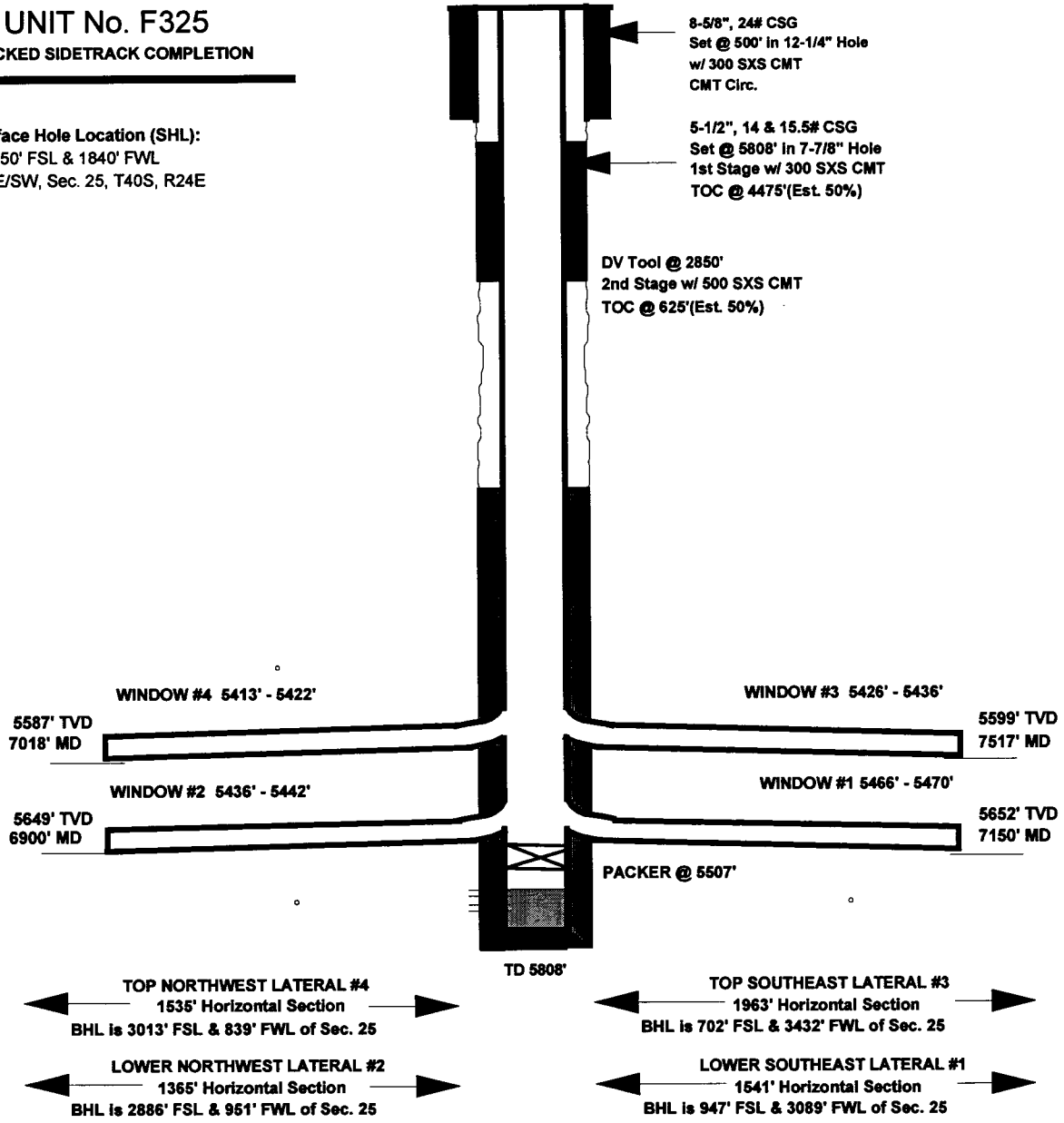
WO tax credit 7/98

10/31/97

# ANETH UNIT No. F325

**ACTUAL DUAL STACKED SIDETRACK COMPLETION**

**Surface Hole Location (SHL):**
1850' FSL & 1840' FWL
NE/SW, Sec. 25, T40S, R24E



Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No. I-149-IND-8838

6. If Indian, Alottee or Tribe Name NAVAJO TRIBE

7. If Unit or CA, Agreement Designation ANETH UNIT

8. Well Name and Number ANETH UNIT F325

9. API Well No. 4303730237

10. Field and Pool, Exploratory Area DESERT CREEK

11. County or Parish, State SAN JUAN , UTAH

1. Type of Well: ☑ OIL WELL ☐ GAS WELL ☐ OTHER

2. Name of Operator TEXACO EXPLORATION & PRODUCTION, INC.

3. Address and Telephone No. 3300 N. Butler Ave, Ste100 Farmington NM 87401 325-4397

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter K : 1850 Feet From The SOUTH Line and 1840 Feet From The WEST Line Section 25 Township T40S Range R24E

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| ☐ Notice of Intent | ☐ Abandonment | ☐ Change of Plans |
| ☑ Subsequent Report | ☐ Recompletion | ☐ New Construction |
| ☐ Final Abandonment Notice | ☐ Plugging Back | ☐ Non-Routine Fracturing |
| | ☐ Casing Repair | ☐ Water Shut-Off |
| | ☐ Altering Casing | ☐ Conversion to Injection |
| | ☑ OTHER: UP GRADE PUMP | ☐ Dispose Water |
| | | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.) |

13. 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.)*.

***** THIS SUNDRY REPORT IS FOR UTAH SEVERANCE TAX CALCULATION INFORMATION PURPOSES ONLY *****

TEXACO E&P HAS UPGRADED THE PRODUCTION EQUIPMENT TO MORE CLOSELY MATCH THE WELL PRODUCTION WITH PUMP CAPACITY.

12/31/98 -1/5/99 MI/RUSU TOOH W/TBG. AND PUMP, LAID DOWN PUMP (1000-2000 BPD). PICKED UP LARGER PERMANENT PUMP (2200 BPD), TIH W/ PUMP AND TBG. PUT ON PROD RDMOSU.

RECEIVED
MAR 05 1999
DIV OF OIL GAS & MINING

WTC 3-22-99 RTE
Pump change to accomodate recompletion

14. I hereby certify that the foregoing is true and correct
SIGNATURE Rached Hindi TITLE Senior Engineer DATE 2/26/99
TYPE OR PRINT NAME Rached Hindi

(This space for Federal or State office use)

APPROVED
CONDITIONS OF APPROVAL, IF ANY: ____ TITLE ____ DATE ____

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

Chevron

**Chevron U.S.A. Production Company**
Mid-Continent Business Unit
P.O. Box 36366
Houston, TX 77236
Phone 713 754 2000

April 9, 2002

RECEIVED
APR 1 2 2002
DIVISION OF
OIL, GAS AND MINING

Mr. John Baza,
Associate Director of Oil and Gas
Utah Department of Natural Resources
Division of Oil, Gas & Mining
1594 W. North Temple St., Suite 1210
Salt Lake City, UT 84114-5801

Dear Mr. Baza:

As you may recall from our meeting last year, we planned to combine the assets of Chevron U.S.A. Inc. ("CUSA"), by merger, and Texaco Exploration and Production Inc. ("TEPI"), by assignment, into a new entity which we referred to as "Newco LP". Along the way, additional information came to light and it was decided that this proposed corporate restructure would not be preferable. Therefore, CUSA and TEPI have continued to operate as separate entities.

We are now planning a simpler restructuring process where TEPI will assign most of its assets/operatorship to CUSA effective May 1, 2002. We plan to use the existing CUSA bonds/letters of credit, operator identification numbers, etc., for the TEPI assets that will be assigned.

A task force of Land, Regulatory and Environmental Compliance personnel are finishing the work that was begun last year to assign TEPI's assets—using the same forms and procedures as before. We have "new faces" in this task force due to reassignments and departures. In some cases, it may be worthwhile to visit you and your staff in person where new people are involved or if we need to review/clarify your forms and procedures. Otherwise, we will endeavor to complete the work to assign TEPI's assets/operatorship to CUSA and deliver the requisite materials to you in a timely manner.

During discussions last year, our focus was on Land, Regulatory and Environmental matters. The Finance organization also desires to join in this effort. For State Tax, Royalty and Regulatory reporting purposes (applicable to production from May 2002 through December 2002), we intend to generate two reports and two payments.

However, the reporting company name and identification number will be CUSA's. Beginning with January 2003 production and thereafter, we will issue only one CUSA report and payment. We trust this plan meets with your approval. Any questions or comments should be directed to Rick Dunlavy (telephone 713/752-7411, rickdunlavy@chevrontexaco.com).

We appreciate the cooperation and guidance you provided us in the past, and we look forward to bringing these efforts to a conclusion.

Respectfully submitted,

Don R. Sellars

Don R. Sellars
Sr. Environmental Specialist

Chevron U.S.A. Inc.
Permian Business Unit
Aneth Operations
San Juan County, Utah

Name / Operatorship Change
Texaco Exploration and Production Inc.
to
Chevron U.S.A. Inc.

| Account Number | Section | Township | Range | API Number | Well Name | Lease Type | Well Status Main | Well Type Main |
|---|---|---|---|---|---|---|---|---|
| N5700 | 11 | 400S | 230E | 4303716034 | MESA 1 (ANETH C411) | 1 | I | WI |
| N5700 | 11 | 400S | 230E | 4303716037 | MESA 2 (ANTH D311) | 1 | S | OW |
| N5700 | 12 | 400S | 230E | 4303715822 | BURTON 14-12 (A412) | 1 | P | OW |
| N5700 | 12 | 400S | 230E | 4303715829 | BURTON 34-12 (C412) | 1 | P | OW |
| N5700 | 12 | 400S | 230E | 4303715831 | BURTON 43-12 (D312) | 1 | P | OW |
| N5700 | 12 | 400S | 230E | 4303716272 | BURTON 23-12 (ANETH B312) | 1 | A | WI |
| N5700 | 12 | 400S | 230E | 4303716274 | BURTON 31-12 (ANETH C-112) | 1 | I | WI |
| N5700 | 12 | 400S | 230E | 4303716278 | BURTON 42-12 (ANETH D212) | 1 | A | WI |
| N5700 | 12 | 400S | 230E | 4303730049 | ANETH UNIT D-412 | 1 | A | WI |
| N5700 | 12 | 400S | 230E | 4303730112 | ANETH UNIT C-312 | 1 | A | WI |
| N5700 | 12 | 400S | 230E | 4303731537 | ANETH B412 | 1 | S | OW |
| N5700 | 13 | 400S | 230E | 4303715821 | BURTON 12-13 (A213) | 1 | P | OW |
| N5700 | 13 | 400S | 230E | 4303715823 | BURTON 14-13 (A413) | 1 | P | OW |
| N5700 | 13 | 400S | 230E | 4303715824 | BURTON 21-13 (B113) | 1 | S | OW |
| N5700 | 13 | 400S | 230E | 4303715825 | BURTON 22-13 (ANETH B-213) | 1 | A | WI |
| N5700 | 13 | 400S | 230E | 4303715826 | ANETH UNIT B313 | 1 | P | OW |
| N5700 | 13 | 400S | 230E | 4303715827 | BURTON 31-13 (ANETH C-113) | 1 | A | WI |
| N5700 | 13 | 400S | 230E | 4303715828 | BURTON 33-13 (ANETH C-313) | 1 | A | WI |
| N5700 | 13 | 400S | 230E | 4303715830 | BURTON 42-13 (D213) | 1 | A | WI |
| N5700 | 13 | 400S | 230E | 4303716279 | BURTON 44-13 (ANETH D-413) | 1 | A | WI |
| N5700 | 13 | 400S | 230E | 4303730119 | ANETH UNIT A-113 | 1 | A | WI |
| N5700 | 13 | 400S | 230E | 4303730162 | ANETH U D313 | 1 | S | OW |
| N5700 | 13 | 400S | 230E | 4303730173 | ANETH U C213 | 1 | P | OW |
| N5700 | 13 | 400S | 230E | 4303730174 | ANETH UNIT D113 | 1 | A | WI |
| N5700 | 13 | 400S | 230E | 4303730297 | ANETH B-413 | 1 | A | WI |
| N5700 | 13 | 400S | 230E | 4303730298 | ANETH U C413 | 1 | P | OW |
| N5700 | 13 | 400S | 230E | 4303730299 | ANETH UNIT A-313 | 1 | A | WI |
| N5700 | 13 | 400S | 230E | 4303731076 | ANETH UNIT C313SE | 1 | S | OW |
| N5700 | 13 | 400S | 230E | 4303731382 | ANETH UNIT D-113SE | 2 | P | OW |
| N5700 | 13 | 400S | 230E | 4303731383 | ANETH UNIT D213SE | 1 | P | OW |
| N5700 | 14 | 400S | 230E | 4303716030 | ARROWHEAD 7 (A214) | 1 | P | OW |
| N5700 | 14 | 400S | 230E | 4303716031 | ARROWHEAD 8 (A414) | 1 | S | OW |

Chevron U.S.A. Inc.
Permian Business Unit
Aneth Operations
San Juan County, Utah

Name / Operatorship Change
Texaco Exploration and Production Inc.
to
Chevron U.S.A. Inc.

| Account Number | Section | Township | Range | API Number | Well Name | Lease Type | Well Status Main | Well Type Main |
|---|---|---|---|---|---|---|---|---|
| N5700 | 14 | 400S | 230E | 4303716032 | ARROWHEAD 6 (ANETH B-114) | 1 | A | WI |
| N5700 | 14 | 400S | 230E | 4303716033 | ARROWHEAD 3 (ANETH C-214) | 1 | A | WI |
| N5700 | 14 | 400S | 230E | 4303716035 | ARROWHEAD 5 (ANETH C-414) | 1 | A | WI |
| N5700 | 14 | 400S | 230E | 4303716038 | ARROWHEAD 4 (ANETH D-314) | 1 | A | WI |
| N5700 | 14 | 400S | 230E | 4303716273 | ARROWHEAD 2 (ANETH B-314) | 1 | A | WI |
| N5700 | 14 | 400S | 230E | 4303716277 | ARROWHEAD 1 (ANETH D-114) | 1 | A | WI |
| N5700 | 14 | 400S | 230E | 4303730634 | ANETH U A114 | 1 | S | OW |
| N5700 | 14 | 400S | 230E | 4303730635 | ANETH U B214 | 1 | P | OW |
| N5700 | 14 | 400S | 230E | 4303730636 | ANETH U C114 | 1 | S | OW |
| N5700 | 14 | 400S | 230E | 4303730637 | ANETH U C314 | 1 | P | OW |
| N5700 | 14 | 400S | 230E | 4303730638 | ANETH U D214 | 1 | P | OW |
| N5700 | 14 | 400S | 230E | 4303730639 | ANETH U D414 | 1 | S | OW |
| N5700 | 23 | 400S | 230E | 4303716036 | AW RICE 1 (D123) | 1 | P | OW |
| N5700 | 23 | 400S | 230E | 4303716271 | A W RICE 2 (ANETH B-123) | 1 | A | WI |
| N5700 | 23 | 400S | 230E | 4303716276 | A W RICE 3 (ANETH C-223) | 1 | A | WI |
| N5700 | 24 | 400S | 230E | 4303715701 | FED B-1 (D124) | 1 | P | OW |
| N5700 | 24 | 400S | 230E | 4303716270 | FEDERAL A-1 (ANETH A-124) | 1 | A | WI |
| N5700 | 24 | 400S | 230E | 4303716275 | FEDERAL 1 (ANETH C-124) | 1 | A | WI |
| N5700 | 07 | 400S | 240E | 4303715412 | W ISMY FED 3 (ANETH E307) | 1 | A | WI |
| N5700 | 07 | 400S | 240E | 4303715415 | W ISMAY FED 2 (ANETH F-407) | 1 | A | WI |
| N5700 | 07 | 400S | 240E | 4303716100 | NAVAJO FED 6-1 (ANETH G-307) | 1 | A | WI |
| N5700 | 07 | 400S | 240E | 4303716118 | NAVAJO FED 7-1 (ANETH H-207) | 1 | I | WI |
| N5700 | 07 | 400S | 240E | 4303716283 | GULF-AZTEC FED 7 (ANETH E-207) | 1 | A | WI |
| N5700 | 07 | 400S | 240E | 4303716322 | NAVAJO TRIBE FED 5-1 (ANETH H-407) | 2 | A | WI |
| N5700 | 07 | 400S | 240E | 4303730115 | ANETH U F307 | 1 | P | OW |
| N5700 | 07 | 400S | 240E | 4303730122 | ANETH U H307 | 2 | P | OW |
| N5700 | 07 | 400S | 240E | 4303730151 | ANETH U G407 | 1 | P | OW |
| N5700 | 07 | 400S | 240E | 4303730175 | ANETH U E407 | 1 | A | WI |
| N5700 | 07 | 400S | 240E | 4303731386 | ANETH UNIT E407SW | 1 | P | OW |
| N5700 | 08 | 400S | 240E | 4303716060 | NAVAJO TRIBE E-15 (ANETH E-308) | 2 | A | WI |
| N5700 | 08 | 400S | 240E | 4303716076 | NAVAJO FED 8-1 (ANETH F-208) | 2 | A | WI |
| N5700 | 08 | 400S | 240E | 4303716101 | NAVAJO TRIBE L-6 (ANETH G-308) | 2 | A | WI |

Chevron U.S.A. Inc.
Permian Business Unit
Aneth Operations
San Juan County, Utah

Name / Operatorship Change
Texaco Exploration and Production Inc.
to
Chevron U.S.A. Inc.

| Account Number | Section | Township | Range | API Number | Well Name | Lease Type | Well Status Main | Well Type Main |
|---|---|---|---|---|---|---|---|---|
| N5700 | 08 | 400S | 240E | 4303716119 | NAVAJO TRIBE E-16 (ANETH H-208) | 2 | A | WI |
| N5700 | 08 | 400S | 240E | 4303716284 | NAVAJO FED 9-1 (ANETH E-208) | 2 | A | WI |
| N5700 | 08 | 400S | 240E | 4303716298 | NAVAJO TRIBE E-13 (ANETH F-408) | 2 | A | WI |
| N5700 | 08 | 400S | 240E | 4303716323 | NAVAJO TRIBE L-3 (ANETH H-408) | 2 | A | WI |
| N5700 | 08 | 400S | 240E | 4303730152 | ANETH U G408 | 2 | P | OW |
| N5700 | 08 | 400S | 240E | 4303730159 | ANETH U E408 | 2 | P | OW |
| N5700 | 08 | 400S | 240E | 4303730176 | ANETH U F308 | 2 | P | OW |
| N5700 | 08 | 400S | 240E | 4303730177 | ANETH U H308 | 2 | P | OW |
| N5700 | 08 | 400S | 240E | 4303730178 | ANETH U G208 | 2 | P | OW |
| N5700 | 09 | 400S | 240E | 4303716057 | NAV TRB E-18 (E209) | 2 | P | OW |
| N5700 | 09 | 400S | 240E | 4303716061 | NAVAJO TRIBE E-14 (ANETH E-309) | 2 | A | WI |
| N5700 | 09 | 400S | 240E | 4303716082 | NAVAJO TRIBE E-4 (ANETH F-409) | 2 | A | WI |
| N5700 | 09 | 400S | 240E | 4303716102 | NAV TRB E-3 (G309) | 2 | P | OW |
| N5700 | 09 | 400S | 240E | 4303716324 | ANETH H 409 | 2 | P | OW |
| N5700 | 09 | 400S | 240E | 4303730189 | ANETH U E409 | 2 | P | OW |
| N5700 | 10 | 400S | 240E | 4303716125 | NAVAJO TRIBE E-7 (ANETH H-410) | 2 | I | WI |
| N5700 | 11 | 400S | 240E | 4303715940 | ANETH UNIT E-411 | 2 | A | WI |
| N5700 | 11 | 400S | 240E | 4303715944 | NAVAJO A-10/34-11 (ANETH G-411) | 2 | A | WI |
| N5700 | 11 | 400S | 240E | 4303716295 | NAVAJO A-12/23-11 (ANETH F-311) | 2 | A | WI |
| N5700 | 11 | 400S | 240E | 4303730217 | ANETH UNIT F411 | 2 | P | OW |
| N5700 | 13 | 400S | 240E | 4303715938 | NAV TRIBE A-13 (ANETH E-213) | 2 | A | WI |
| N5700 | 13 | 400S | 240E | 4303715941 | NAVAJO A-4 (ANETH E-413) | 2 | A | WI |
| N5700 | 13 | 400S | 240E | 4303730200 | ANETH U E313 | 2 | P | OW |
| N5700 | 14 | 400S | 240E | 4303715939 | NAVAJO A-6 (ANETH E-214) | 2 | A | WI |
| N5700 | 14 | 400S | 240E | 4303715942 | ANETH F-314 | 2 | A | WI |
| N5700 | 14 | 400S | 240E | 4303715943 | NAVAJO A-7/32-14 (ANETH G-214) | 2 | A | WI |
| N5700 | 14 | 400S | 240E | 4303715945 | NAVAJO A-1/34-14 (ANETH G-414) | 2 | A | WI |
| N5700 | 14 | 400S | 240E | 4303716310 | NAVAJO A-9/41-14 (ANETH H-114) | 2 | A | WI |
| N5700 | 14 | 400S | 240E | 4303716421 | ANETH UNIT E414 | 2 | A | WI |
| N5700 | 14 | 400S | 240E | 4303716422 | ANETH UNIT F-114 | 2 | A | WI |
| N5700 | 14 | 400S | 240E | 4303730093 | ANETH UNIT E114 | 2 | P | OW |
| N5700 | 14 | 400S | 240E | 4303730123 | ANETH UNIT H414 (MULTI-LEG) | 2 | P | OW |

Chevron U.S.A. Inc.
Permian Business Unit
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San Juan County, Utah

Name / Operatorship Change
Texaco Exploration and Production Inc.
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Chevron U.S.A. Inc.

| Account Number | Section | Township | Range | API Number | Well Name | Lease Type | Well Status Main | Well Type Main |
|---|---|---|---|---|---|---|---|---|
| N5700 | 14 | 400S | 240E | 4303730218 | ANETH UNIT G114 | 2 | P | OW |
| N5700 | 14 | 400S | 240E | 4303730230 | ANETH UNIT G314 | 2 | P | OW |
| N5700 | 14 | 400S | 240E | 4303730250 | ANETH U F214 | 2 | P | OW |
| N5700 | 14 | 400S | 240E | 4303730266 | ANETH UNIT E314 | 2 | P | OW |
| N5700 | 14 | 400S | 240E | 4303730274 | ANETH UNIT F414 | 2 | P | OW |
| N5700 | 14 | 400S | 240E | 4303731381 | ANETH UNIT H314X | 2 | I | WI |
| N5700 | 14 | 400S | 240E | 4303731684 | ANETH UNIT F214SE | 2 | P | OW |
| N5700 | 15 | 400S | 240E | 4303716058 | NAV TRB E-2 (E215) | 2 | P | OW |
| N5700 | 15 | 400S | 240E | 4303716073 | NAV TRB E-6 (E415) | 2 | P | OW |
| N5700 | 15 | 400S | 240E | 4303716074 | NAV TRB E-12 (F115) | 2 | S | OW |
| N5700 | 15 | 400S | 240E | 4303716088 | NAVAJO TRIBAL E-9 (ANETH G115) | 2 | P | OW |
| N5700 | 15 | 400S | 240E | 4303716116 | ANETH G-415 | 2 | A | WI |
| N5700 | 15 | 400S | 240E | 4303716126 | NAV TRB E-1 (H415) | 2 | P | OW |
| N5700 | 15 | 400S | 240E | 4303716296 | NAVAJO TRIBAL E-8 (ANETH F-315) | 2 | A | WI |
| N5700 | 15 | 400S | 240E | 4303730066 | ANETH U G215 | 2 | S | OW |
| N5700 | 15 | 400S | 240E | 4303730213 | ANETH E-315 | 2 | A | WI |
| N5700 | 15 | 400S | 240E | 4303730312 | ANETH H-315 | 2 | A | WI |
| N5700 | 15 | 400S | 240E | 4303731396 | ANETH UNIT E115 | 2 | P | OW |
| N5700 | 15 | 400S | 240E | 4303731397 | ANETH UNIT F215 | 2 | P | OW |
| N5700 | 15 | 400S | 240E | 4303731398 | ANETH UNIT F415 | 2 | P | OW |
| N5700 | 15 | 400S | 240E | 4303731408 | ANETH UNIT G315X | 2 | P | OW |
| N5700 | 16 | 400S | 240E | 4303715832 | STATE THREE 11-16 (ANETH E-116) | 3 | A | WI |
| N5700 | 16 | 400S | 240E | 4303715833 | ST THREE 12-16(E216) | 3 | P | OW |
| N5700 | 16 | 400S | 240E | 4303715834 | ST THREE 14-16(E416) | 3 | P | OW |
| N5700 | 16 | 400S | 240E | 4303715835 | ST THREE 32-16(G216) | 3 | P | OW |
| N5700 | 16 | 400S | 240E | 4303715836 | ST THREE 34-16(G416) | 3 | P | OW |
| N5700 | 16 | 400S | 240E | 4303715837 | ST THREE 43-16(H316) | 3 | P | OW |
| N5700 | 16 | 400S | 240E | 4303716285 | ST THREE 21-16 (ANETH F-116) | 3 | A | WI |
| N5700 | 16 | 400S | 240E | 4303716297 | ST THREE 23-16 (ANETH F-316) | 3 | A | WI |
| N5700 | 16 | 400S | 240E | 4303716312 | STATE THREE 42-16 (ANETH H-216) | 3 | A | WI |
| N5700 | 16 | 400S | 240E | 4303720230 | ANETH H-416 | 3 | A | WI |
| N5700 | 16 | 400S | 240E | 4303730094 | ANETH E-316 | 3 | A | WI |

Chevron U.S.A. Inc.
Permian Business Unit
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San Juan County, Utah

Name / Operatorship Change
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to
Chevron U.S.A. Inc.

| Account Number | Section | Township | Range | API Number | Well Name | Lease Type | Well Status Main | Well Type Main |
|---|---|---|---|---|---|---|---|---|
| N5700 | 16 | 400S | 240E | 4303730107 | ANETH G-316 | 3 | A | WI |
| N5700 | 16 | 400S | 240E | 4303730212 | ANETH U F216 | 3 | P | OW |
| N5700 | 16 | 400S | 240E | 4303730333 | ANETH F-416 | 3 | A | WI |
| N5700 | 16 | 400S | 240E | 4303730344 | ANETH G-116 | 3 | A | WI |
| N5700 | 16 | 400S | 240E | 4303731409 | ANETH UNIT H116 | 3 | P | OW |
| N5700 | 17 | 400S | 240E | 4303716049 | ANETH UNIT E-117 | 2 | A | WI |
| N5700 | 17 | 400S | 240E | 4303716062 | NAVAJO TRIBAL G-7 (ANETH E317) | 2 | A | WI |
| N5700 | 17 | 400S | 240E | 4303716089 | NAVAJO TRIBAL G-3 (ANETH G-117) | 2 | A | WI |
| N5700 | 17 | 400S | 240E | 4303716103 | NAVAJO TRIBAL 1-X-G (ANETH G-317) | 2 | A | WI |
| N5700 | 17 | 400S | 240E | 4303716286 | NAVAJO TRIBAL G-8 (ANETH F-217) | 2 | A | WI |
| N5700 | 17 | 400S | 240E | 4303716299 | NAVAJO TRIBAL G-6 (ANETH F-417) | 2 | A | WI |
| N5700 | 17 | 400S | 240E | 4303716313 | NAV TRIBAL L-4 (ANETH H-217) | 2 | A | WI |
| N5700 | 17 | 400S | 240E | 4303716326 | NAVAJO TRIBAL L-1 (ANETH H-417) | 2 | A | WI |
| N5700 | 17 | 400S | 240E | 4303730134 | ANETH U E417 | 2 | P | OW |
| N5700 | 17 | 400S | 240E | 4303730139 | ANETH U F317 | 2 | P | OW |
| N5700 | 17 | 400S | 240E | 4303730142 | ANETH U E217 | 2 | P | OW |
| N5700 | 17 | 400S | 240E | 4303730144 | ANETH U G417 | 2 | P | OW |
| N5700 | 17 | 400S | 240E | 4303730153 | ANETH U H117 | 2 | P | OW |
| N5700 | 17 | 400S | 240E | 4303730160 | ANETH U F117 | 2 | P | OW |
| N5700 | 17 | 400S | 240E | 4303730166 | ANETH U G217 | 2 | P | OW |
| N5700 | 17 | 400S | 240E | 4303730196 | ANETH U H317 | 2 | P | OW |
| N5700 | 18 | 400S | 240E | 4303715083 | NAVAJO TRIBAL FED U 3 | 2 | A | WI |
| N5700 | 18 | 400S | 240E | 4303715413 | ANETH U E-118 (W ISMY FED 1) | 1 | A | WI |
| N5700 | 18 | 400S | 240E | 4303716063 | NAVAJO TRIBAL 4 (ANETH E-318) | 1 | A | WI |
| N5700 | 18 | 400S | 240E | 4303716090 | NAVAJO TRIBE 2 (ANETH G-118) | 2 | A | WI |
| N5700 | 18 | 400S | 240E | 4303716104 | NAVAJO TRIBE G-4 (ANETH G-318) | 2 | A | WI |
| N5700 | 18 | 400S | 240E | 4303716120 | NAVAJO TRIBAL G-5 (ANETH H-218) | 2 | A | WI |
| N5700 | 18 | 400S | 240E | 4303716287 | NAVAJO FED U 1 (ANETH F-218) | 2 | A | WI |
| N5700 | 18 | 400S | 240E | 4303716327 | NAVAJO TRIBAL G-2 (ANETH H-418) | 2 | A | WI |
| N5700 | 18 | 400S | 240E | 4303730131 | ANETH U G218 | 2 | P | OW |
| N5700 | 18 | 400S | 240E | 4303730132 | ANETH U G418 | 2 | P | OW |
| N5700 | 18 | 400S | 240E | 4303730136 | ANETH U H318 | 2 | P | OW |

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| Account Number | Section | Township | Range | API Number | Well Name | Lease Type | Well Status Main | Well Type Main |
|---|---|---|---|---|---|---|---|---|
| N5700 | 18 | 400S | 240E | 4303730137 | ANETH U E218 | 1 | A | WI |
| N5700 | 18 | 400S | 240E | 4303730155 | ANETH U F118 | 1 | A | WI |
| N5700 | 18 | 400S | 240E | 4303730157 | ANETH U H118 | 2 | P | OW |
| N5700 | 18 | 400S | 240E | 4303730165 | ANETH U E418 | 1 | P | OW |
| N5700 | 18 | 400S | 240E | 4303730169 | ANETH U F318 | 2 | P | OW |
| N5700 | 18 | 400S | 240E | 4303731077 | ANETH UNIT E118SE | 1 | P | OW |
| N5700 | 18 | 400S | 240E | 4303731385 | ANETH UNIT E218SE | 1 | P | OW |
| N5700 | 18 | 400S | 240E | 4303731534 | ANETH E407SE | 1 | P | OW |
| N5700 | 19 | 400S | 240E | 4303716077 | NAVAJO TRIBE D-26 (ANETH F-219) | 2 | A | WI |
| N5700 | 19 | 400S | 240E | 4303716081 | NAV TRB D-29(F319) | 2 | P | OW |
| N5700 | 19 | 400S | 240E | 4303716091 | NAVAJO TRIBE D-16 (ANETH G-119) | 2 | A | WI |
| N5700 | 19 | 400S | 240E | 4303716121 | NAVAJO TRIBE D-3 (ANETH H-219) | 2 | A | WI |
| N5700 | 19 | 400S | 240E | 4303716280 | NAVAJO FED U B-1 (ANETH E-119) | 2 | A | WI |
| N5700 | 19 | 400S | 240E | 4303716309 | NAVAJO TRIBE D-25 (ANETH G-319) | 2 | A | WI |
| N5700 | 19 | 400S | 240E | 4303716328 | NAVAJO TRIBE D-27 (ANETH H-419) | 2 | A | WI |
| N5700 | 19 | 400S | 240E | 4303730133 | ANETH U H119 | 2 | P | OW |
| N5700 | 19 | 400S | 240E | 4303730167 | ANETH U G219 | 2 | P | OW |
| N5700 | 19 | 400S | 240E | 4303730168 | ANETH U H319 | 2 | P | OW |
| N5700 | 19 | 400S | 240E | 4303730197 | ANETH U F119 | 2 | P | OW |
| N5700 | 20 | 400S | 240E | 4303716050 | NAVAJO TRIBE D-10 (ANETH E-120) | 2 | A | WI |
| N5700 | 20 | 400S | 240E | 4303716065 | NAVAJO TRIBE D-17 (ANETH E-320) | 2 | A | WI |
| N5700 | 20 | 400S | 240E | 4303716092 | NAVAJO TRIBE L-5 (ANETH G-120) | 2 | A | WI |
| N5700 | 20 | 400S | 240E | 4303716105 | NAVAJO TRIBE D-12 (ANETH G-320) | 2 | A | WI |
| N5700 | 20 | 400S | 240E | 4303716288 | NAVAJO TRIBE D-8 (ANETH F-220) | 2 | A | WI |
| N5700 | 20 | 400S | 240E | 4303716300 | NAVAJO TRIBE D-20 (ANETH F-420) | 2 | A | WI |
| N5700 | 20 | 400S | 240E | 4303716314 | NAVAJO TRIBE L-2 (ANETH H-220) | 2 | A | WI |
| N5700 | 20 | 400S | 240E | 4303716329 | NAVAJO TRIBE D-13 (ANETH H-420) | 2 | A | WI |
| N5700 | 20 | 400S | 240E | 4303730135 | ANETH U F120 | 2 | P | OW |
| N5700 | 20 | 400S | 240E | 4303730150 | ANETH U E220 | 2 | P | OW |
| N5700 | 20 | 400S | 240E | 4303730154 | ANETH U H320 | 2 | P | OW |
| N5700 | 20 | 400S | 240E | 4303730156 | ANETH U G220 | 2 | P | OW |
| N5700 | 20 | 400S | 240E | 4303730164 | ANETH U F320 | 2 | P | OW |

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| Account Number | Section | Township | Range | API Number | Well Name | Lease Type | Well Status Main | Well Type Main |
|---|---|---|---|---|---|---|---|---|
| N5700 | 20 | 400S | 240E | 4303730228 | ANETH U G420 | 2 | P | OW |
| N5700 | 20 | 400S | 240E | 4303730404 | ANETH U H120X | 2 | P | OW |
| N5700 | 21 | 400S | 240E | 4303716051 | NAVAJO TRIBE D-4 (ANETH E-121) | 2 | A | WI |
| N5700 | 21 | 400S | 240E | 4303716066 | NAVAJO TRIBE D-14 (ANETH E-321) | 2 | A | WI |
| N5700 | 21 | 400S | 240E | 4303716078 | NAVAJO TRIBE D-6 (ANETH F-221) | 2 | A | WI |
| N5700 | 21 | 400S | 240E | 4303716084 | NAVAJO TRIBE D-21 (ANETH F-421) | 2 | A | WI |
| N5700 | 21 | 400S | 240E | 4303716122 | NAVAJO TRIBE D-7 (ANETH H-221) | 2 | A | WI |
| N5700 | 21 | 400S | 240E | 4303716330 | NAVAJO TRIBE D-24 (ANETH H-421) | 2 | A | WI |
| N5700 | 21 | 400S | 240E | 4303730095 | ANETH G-321X | 2 | A | WI |
| N5700 | 21 | 400S | 240E | 4303730117 | ANETH U F121 | 2 | P | OW |
| N5700 | 21 | 400S | 240E | 4303730181 | ANETH U E221 | 2 | P | OW |
| N5700 | 21 | 400S | 240E | 4303730183 | ANETH U H121 | 2 | P | OW |
| N5700 | 21 | 400S | 240E | 4303730185 | ANETH U F321 | 2 | P | OW |
| N5700 | 21 | 400S | 240E | 4303730188 | ANETH U E421 | 2 | P | OW |
| N5700 | 21 | 400S | 240E | 4303730214 | ANETH U G421 | 2 | P | OW |
| N5700 | 21 | 400S | 240E | 4303730216 | ANETH U H321 | 2 | P | OW |
| N5700 | 21 | 400S | 240E | 4303730335 | ANETH G-121X | 2 | A | WI |
| N5700 | 21 | 400S | 240E | 4303730516 | ANETH U G221X | 2 | P | OW |
| N5700 | 21 | 400S | 240E | 4303731078 | ANETH UNIT E121SE | 2 | P | OW |
| N5700 | 22 | 400S | 240E | 4303716059 | NAV TRB D-9 (E222) | 2 | P | OW |
| N5700 | 22 | 400S | 240E | 4303716067 | NAVAJO TRIBE D-19 (ANETH E-322) | 2 | A | WI |
| N5700 | 22 | 400S | 240E | 4303716075 | NAV TRB D-11 (F122) | 2 | P | OW |
| N5700 | 22 | 400S | 240E | 4303716085 | NAVAJO TRIBE D-23 (ANETH F-422) | 2 | A | WI |
| N5700 | 22 | 400S | 240E | 4303716099 | NAV TRB D-1 (G222) | 2 | P | OW |
| N5700 | 22 | 400S | 240E | 4303716117 | NAVAJO TRIBE D-2 (ANETH H-122) | 2 | A | WI |
| N5700 | 22 | 400S | 240E | 4303716127 | NAVAJO TRIBE D-22 (ANETH H-422) | 2 | I | WI |
| N5700 | 22 | 400S | 240E | 4303720231 | ANETH G-322X | 2 | A | WI |
| N5700 | 22 | 400S | 240E | 4303730215 | ANETH E-122 | 2 | A | WI |
| N5700 | 22 | 400S | 240E | 4303730242 | ANETH H-222 | 2 | A | WI |
| N5700 | 22 | 400S | 240E | 4303730345 | ANETH U F322 | 2 | P | OW |
| N5700 | 22 | 400S | 240E | 4303730346 | ANETH U E422 | 2 | P | OW |
| N5700 | 22 | 400S | 240E | 4303730373 | ANETH F-222 | 2 | A | WI |

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|---|---|---|---|---|---|---|---|---|
| N5700 | 22 | 400S | 240E | 4303730375 | ANETH U G422 | 2 | P | OW |
| N5700 | 22 | 400S | 240E | 4303730407 | ANETH U H322 | 2 | P | OW |
| N5700 | 22 | 400S | 240E | 4303730425 | ANETH G-122 | 2 | A | WI |
| N5700 | 23 | 400S | 240E | 4303716052 | NAV TRB C-2 (E123) | 2 | P | OW |
| N5700 | 23 | 400S | 240E | 4303716068 | NAVAJO TRIBE C-12 (ANETH E-323) | 2 | A | WI |
| N5700 | 23 | 400S | 240E | 4303716079 | NAVAJO TRIBE C-7 (ANETH F-223) | 2 | A | WI |
| N5700 | 23 | 400S | 240E | 4303716086 | NAVAJO TRIBE C-17 (ANETH F-423) | 2 | A | WI |
| N5700 | 23 | 400S | 240E | 4303716123 | NAVAJO TRIBE C-8 (ANETH H-223) | 2 | A | WI |
| N5700 | 23 | 400S | 240E | 4303716128 | NAVAJO TRIBE C-3 (ANETH H-423) | 2 | A | WI |
| N5700 | 23 | 400S | 240E | 4303716306 | NAVAJO TRIBE C-1 (ANETH G-123) | 2 | A | WI |
| N5700 | 23 | 400S | 240E | 4303730219 | ANETH U E223 | 2 | P | OW |
| N5700 | 23 | 400S | 240E | 4303730223 | ANETH U H123 | 2 | P | OW |
| N5700 | 23 | 400S | 240E | 4303730226 | ANETH U G223 | 2 | P | OW |
| N5700 | 23 | 400S | 240E | 4303730234 | ANETH U F323 | 2 | P | OW |
| N5700 | 23 | 400S | 240E | 4303730235 | ANETH F-123 | 2 | A | WI |
| N5700 | 23 | 400S | 240E | 4303730311 | ANETH UNIT G423 (MULTI-LEG) | 2 | P | OW |
| N5700 | 23 | 400S | 240E | 4303730316 | ANETH U H323 | 2 | P | OW |
| N5700 | 23 | 400S | 240E | 4303730370 | ANETH U E423 | 2 | P | OW |
| N5700 | 24 | 400S | 240E | 4303716069 | NAVAJO TRIBE C-10 (ANETH E-324) | 2 | A | WI |
| N5700 | 24 | 400S | 240E | 4303716087 | NAVAJO TRIBE C-13 (ANETH F-424) | 2 | A | WI |
| N5700 | 24 | 400S | 240E | 4303716111 | NAVAJO TRIBE C-15 (ANETH G-324) | 2 | A | WI |
| N5700 | 24 | 400S | 240E | 4303716289 | NAVAJO TRIBE C-16 (ANETH F-224) | 2 | A | WI |
| N5700 | 24 | 400S | 240E | 4303716331 | NAVAJO TRIBE C-28 (ANETH H-424) | 2 | A | WI |
| N5700 | 24 | 400S | 240E | 4303730231 | ANETH U E224 | 2 | P | OW |
| N5700 | 24 | 400S | 240E | 4303730334 | ANETH U G424 | 2 | P | OW |
| N5700 | 24 | 400S | 240E | 4303730349 | ANETH U F324 | 2 | P | OW |
| N5700 | 24 | 400S | 240E | 4303730350 | ANETH U E424 | 2 | P | OW |
| N5700 | 25 | 400S | 240E | 4303716070 | NAVAJO TRIBE C-21 (ANETH E-325) | 2 | A | WI |
| N5700 | 25 | 400S | 240E | 4303716080 | NAVAJO TRIBE C-20 (F225) | 2 | A | WI |
| N5700 | 25 | 400S | 240E | 4303716095 | ANETH UNIT G125 | 2 | A | WI |
| N5700 | 25 | 400S | 240E | 4303716124 | NAVAJO TRIBE C-11 (ANETH H-225) | 2 | A | WI |
| N5700 | 25 | 400S | 240E | 4303716129 | NAVAJO TRIBE C-24 (ANETH H-425) | 2 | A | WI |

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|---|---|---|---|---|---|---|---|---|
| N5700 | 25 | 400S | 240E | 4303716301 | NAVAJO TRIBE C-32 (ANETH F-425) | 2 | A | WI |
| N5700 | 25 | 400S | 240E | 4303730221 | ANETH U F125 | 2 | P | OW |
| N5700 | 25 | 400S | 240E | 4303730222 | ANETH U G225 | 2 | P | OW |
| N5700 | 25 | 400S | 240E | 4303730233 | ANETH U E225 | 2 | P | OW |
| N5700 | 25 | 400S | 240E | 4303730237 | ANETH UNIT F325 | 2 | P | OW |
| N5700 | 25 | 400S | 240E | 4303730238 | ANETH U G425 | 2 | P | OW |
| N5700 | 25 | 400S | 240E | 4303730239 | ANETH UNIT H325 | 2 | P | OW |
| N5700 | 25 | 400S | 240E | 4303730308 | ANETH U H125 | 2 | P | OW |
| N5700 | 25 | 400S | 240E | 4303730343 | ANETH UNIT E425 | 2 | P | OW |
| N5700 | 25 | 400S | 240E | 4303730374 | ANETH U G325X | 2 | P | OW |
| N5700 | 26 | 400S | 240E | 4303716054 | NAVAJO TRIBE C-29 (ANETH E-126) | 2 | A | WI |
| N5700 | 26 | 400S | 240E | 4303716071 | NAVAJO TRIBE C-30 (ANETH E-326) | 2 | A | WI |
| N5700 | 26 | 400S | 240E | 4303716113 | NAVAJO TRIBE C-27 (ANETH G-326) | 2 | A | WI |
| N5700 | 26 | 400S | 240E | 4303716290 | NAVAJO TRIBE C-23 (ANETH F-226) | 2 | A | WI |
| N5700 | 26 | 400S | 240E | 4303716302 | NAVAJO TRIBE C-4 (ANETH F-426) | 2 | A | WI |
| N5700 | 26 | 400S | 240E | 4303716316 | NAVAJO TRIBE C-19 (ANETH H-226) | 2 | A | WI |
| N5700 | 26 | 400S | 240E | 4303716332 | NAVAJO TRIBE C-31 (ANETH H-426) | 2 | A | WI |
| N5700 | 26 | 400S | 240E | 4303730220 | ANETH U E426 | 2 | P | OW |
| N5700 | 26 | 400S | 240E | 4303730232 | ANETH U F326 | 2 | P | OW |
| N5700 | 26 | 400S | 240E | 4303730236 | ANETH U G426 | 2 | P | OW |
| N5700 | 26 | 400S | 240E | 4303730310 | ANETH UNIT F126 | 2 | P | OW |
| N5700 | 26 | 400S | 240E | 4303730348 | ANETH U H126 | 2 | P | OW |
| N5700 | 26 | 400S | 240E | 4303730368 | ANETH U H326 | 2 | P | OW |
| N5700 | 26 | 400S | 240E | 4303730369 | ANETH U G226 | 2 | P | OW |
| N5700 | 26 | 400S | 240E | 4303730371 | ANETH U E226 | 2 | P | OW |
| N5700 | 26 | 400S | 240E | 4303730372 | ANETH G-126X | 2 | A | WI |
| N5700 | 27 | 400S | 240E | 4303716223 | ANETH 27-B2 (ANETH F-227) | 2 | I | WI |
| N5700 | 27 | 400S | 240E | 4303716226 | ANETH A 27-03 (G327) | 2 | P | OW |
| N5700 | 27 | 400S | 240E | 4303716307 | ANETH 27-C-1 (ANETH G-127) | 2 | A | WI |
| N5700 | 27 | 400S | 240E | 4303716317 | ANETH 27-D2 (ANETH H-227) | 2 | A | WI |
| N5700 | 27 | 400S | 240E | 4303716333 | ANETH 27-D-4 (ANETH H-427) | 2 | A | WI |
| N5700 | 27 | 400S | 240E | 4303716782 | ANETH 27-A-1 (ANETH E-127) | 2 | A | WI |

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|---|---|---|---|---|---|---|---|---|
| N5700 | 27 | 400S | 240E | 4303730643 | ANETH U H127 | 2 | P | OW |
| N5700 | 27 | 400S | 240E | 4303730718 | ANETH U F127 | 2 | P | OW |
| N5700 | 28 | 400S | 240E | 4303716222 | ANETH 28-A-1 (ANETH E-128) | 2 | A | WI |
| N5700 | 28 | 400S | 240E | 4303716224 | ANETH 28-C-1 (ANETH G-128) | 2 | A | WI |
| N5700 | 28 | 400S | 240E | 4303716228 | ANETH H-228 | 2 | A | WI |
| N5700 | 28 | 400S | 240E | 4303730644 | ANETH U H128 | 2 | S | OW |
| N5700 | 28 | 400S | 240E | 4303730728 | ANETH U F128 | 2 | P | OW |
| N5700 | 29 | 400S | 240E | 4303716055 | NAVAJO TRIBE S-2 (ANETH E-129) | 2 | A | WI |
| N5700 | 29 | 400S | 240E | 4303716097 | NAVAJO TRIBE S-1 (ANETH G-129) | 2 | A | WI |
| N5700 | 29 | 400S | 240E | 4303716134 | NAV TRB AB-1 (G329) | 2 | P | OW |
| N5700 | 29 | 400S | 240E | 4303716292 | NAVAJO TRIBE S-4 (ANETH F-229) | 2 | I | WI |
| N5700 | 29 | 400S | 240E | 4303716318 | NAVAJO TRIBE S-3 (ANETH H-229) | 2 | A | WI |
| N5700 | 29 | 400S | 240E | 4303730187 | ANETH U F129 | 2 | P | OW |
| N5700 | 29 | 400S | 240E | 4303731529 | ANETH H129 | 2 | P | OW |
| N5700 | 33 | 400S | 240E | 4303716229 | ANETH 33-D4 (H433) | 2 | P | OW |
| N5700 | 34 | 400S | 240E | 4303716225 | ANETH 34-C1 (G134) | 2 | P | OW |
| N5700 | 34 | 400S | 240E | 4303716227 | ANETH 34-C3 (G334) | 2 | P | OW |
| N5700 | 34 | 400S | 240E | 4303716230 | ANETH 34-D4 (H434) | 2 | S | OW |
| N5700 | 34 | 400S | 240E | 4303716303 | ANETH 34-B-4 (ANETH F-434) | 2 | A | WI |
| N5700 | 34 | 400S | 240E | 4303716319 | ANETH 34-D2 (ANETH H-234) | 2 | I | WI |
| N5700 | 35 | 400S | 240E | 4303716056 | NAVAJO TRIBE Q-3 (E135) | 2 | P | OW |
| N5700 | 35 | 400S | 240E | 4303716072 | NAVAJO TRIBE Q-2 (E335) | 2 | P | OW |
| N5700 | 35 | 400S | 240E | 4303716115 | NAV TRB Q-6 (G335) | 2 | P | OW |
| N5700 | 35 | 400S | 240E | 4303716130 | NAVAJO TRIBE Q-7 (H435) | 2 | P | OW |
| N5700 | 35 | 400S | 240E | 4303716293 | NAVAJO TRIBE Q-5 (ANETH F-235) | 2 | A | WI |
| N5700 | 35 | 400S | 240E | 4303716304 | NAVAJO TRIBE Q-8 (ANETH F-435) | 2 | A | WI |
| N5700 | 35 | 400S | 240E | 4303716320 | NAVAJO TRIBE Q-4 (ANETH H-235) | 2 | A | WI |
| N5700 | 35 | 400S | 240E | 4303730412 | ANETH U H335 | 2 | P | OW |
| N5700 | 35 | 400S | 240E | 4303731531 | ANETH H135 | 2 | P | OW |
| N5700 | 36 | 400S | 240E | 4303715485 | NAVAJO 4 (ANETH E-136) | 2 | A | WI |
| N5700 | 36 | 400S | 240E | 4303715486 | NAV TRB 2-A (G136) | 2 | A | WI |
| N5700 | 36 | 400S | 240E | 4303715487 | NAVAJO 1 (ANETH H-236) | 2 | A | WI |

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|---|---|---|---|---|---|---|---|---|
| N5700 | 36 | 400S | 240E | 4303716294 | NAVAJO 3 (ANETH F-236) | 2 | A | WI |
| N5700 | 36 | 400S | 240E | 4303730227 | ANETH U H136 | 2 | P | OW |
| N5700 | 36 | 400S | 240E | 4303730409 | ANETH U F136 | 2 | P | OW |
| N5700 | 36 | 400S | 240E | 4303730410 | ANETH U G236 | 2 | P | OW |
| N5700 | 36 | 400S | 240E | 4303730716 | ANETH U E236 | 2 | P | OW |
| N5700 | 19 | 400S | 250E | 4303716140 | ANETH UNIT L-419 | 2 | A | WI |
| N5700 | 29 | 400S | 250E | 4303716131 | NAVAJO TRIBE F-8 (ANETH J-129) | 2 | A | WI |
| N5700 | 29 | 400S | 250E | 4303730645 | ANETH U J229 | 2 | S | OW |
| N5700 | 30 | 400S | 250E | 4303716132 | NAVAJO TRIBE F-9 (ANETH J-130) | 2 | A | WI |
| N5700 | 30 | 400S | 250E | 4303716134 | NAVAJO TRIBE F-5 (ANETH J-330) | 2 | A | WI |
| N5700 | 30 | 400S | 250E | 4303716135 | NAVAJO TRIBE F-2 (ANETH K-230) | 2 | A | WI |
| N5700 | 30 | 400S | 250E | 4303716137 | NAVAJO TRIBE F-7 (ANETH K-430) | 2 | A | WI |
| N5700 | 30 | 400S | 250E | 4303716138 | NAV TRB F-12 (L130) | 2 | P | OW |
| N5700 | 30 | 400S | 250E | 4303716139 | NAVAJO TRIBE F-6 (ANETH L-330) | 2 | A | WI |
| N5700 | 30 | 400S | 250E | 4303716141 | NAVAJO TRIBE F-10 (ANETH M-230) | 2 | A | WI |
| N5700 | 30 | 400S | 250E | 4303716337 | NAVAJO TRIBE F-11 (ANETH M-430) | 2 | A | WI |
| N5700 | 30 | 400S | 250E | 4303730224 | ANETH U K330 | 2 | P | OW |
| N5700 | 30 | 400S | 250E | 4303730225 | ANETH U M330 | 2 | P | OW |
| N5700 | 30 | 400S | 250E | 4303730240 | ANETH UNIT J230 | 2 | P | OW |
| N5700 | 30 | 400S | 250E | 4303730241 | ANETH U L230 | 2 | P | OW |
| N5700 | 30 | 400S | 250E | 4303730243 | ANETH U J430 | 2 | P | OW |
| N5700 | 30 | 400S | 250E | 4303730646 | ANETH U K130 | 2 | P | OW |
| N5700 | 30 | 400S | 250E | 4303730648 | ANETH U L430 | 2 | P | OW |
| N5700 | 30 | 400S | 250E | 4303730649 | ANETH U M130 | 2 | P | OW |
| N5700 | 31 | 400S | 250E | 4303715946 | NAVAJO TRIBE C11-31 (J131) | 2 | A | WI |
| N5700 | 31 | 400S | 250E | 4303716335 | NAVAJO TRIBE C-22-31 (ANETH K-231) | 2 | A | WI |
| N5700 | 31 | 400S | 250E | 4303730413 | ANETH U J231 | 2 | P | OW |
| N5700 | 31 | 400S | 250E | 4303730647 | ANETH U K131 | 2 | P | OW |

STA[illegible] OF UTAH
DEPARTMENT [illegible]ATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

# SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached List of Wells

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: BLM & State of Utah

7. UNIT or CA AGREEMENT NAME: Orangeville & Huntington

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Operator Name Change

8. WELL NAME and NUMBER: See Attached List of Wells

2. NAME OF OPERATOR: Chevron U.S.A. Inc.

9. API NUMBER:

3. ADDRESS OF OPERATOR: P.O. Box 36366 CITY Houston STATE TX ZIP 77236 PHONE NUMBER: (281) 561-3443

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached List of Wells COUNTY: Emery

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☑ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start: | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☑ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☑ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion: | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☐ OTHER: Operator Name Change (Merger) |
| | ☐ CONVERT WELL TYPE | ☐ RECOMPLETE - DIFFERENT FORMATION | |

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

Effective May 1, 2002, Chevron U.S.A. Inc. is the new operator of the attached list of subject wells and leases that were previously operated by Texaco Exploration and Production Inc. The subject wells are located North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following surety bonds:

STATE OF UTAH Bond #: 103521627-0016 in the amount of $80,000. (This bond will replace United Pacific Insurance Company bond number U89-75-80-0059. We respectfully request this bond be released and returned.)

BLM Nationwide Bond#: U89-75-81-0034 in the amount of $300,000.

Key Contacts:

Ron Wirth - Operations Supervisor - 435 748-5395 x1

Texaco Exploration & Production Inc.

J. S. Purdy, Attorney-In-Fact

RECEIVED
MAY 06 2002
DIVISION OF
OIL, GAS AND MINING

NAME (PLEASE PRINT) Allen S. Robinson TITLE Attorney-In-Fact

SIGNATURE DATE April 30, 2002

This space for State use only)

5/2000) (See Instructions on Reverse Side)

THE NAVAJO NATION

MINERALS DEPARTMENT
Post Office Box 1910
Window Rock, Arizona 86515
Phone: (928) 871-6587 • Fax: (928) 871-7095

KELSEY A. BEGAYE
PRESIDENT

TAYLOR McKENZIE, M.D.
VICE PRESIDENT

October 11, 2002

Mr. Don Sellars
Regulatory Specialist
ChevronTexaco
11111 S. Wilcrest
Houston, Texas 77099

Subject: Navajo Nation Assignment of Oil & Gas Lease

Dear Mr. Sellars:

Attached are fourteen (14) approved Navajo Nation Assignment of Oil and Gas Lease applications for assignment of interest from Texaco Exploration & Production, Inc. to Chevron U.S.A., Inc. (Chevron) for the following leases:

| | | | | | |
|---|---|---|---|---|---|
| 1) | I-149-IND-8834 | 6) | I-149-IND-8839 | 11) | 14-20-603-4035 |
| 2) | I-149-IND-8835 | 7) | 14-20-603-2057 | 12) | 14-20-603-4037 |
| 3) | I-149-IND-8836 | 8) | 14-20-603-2059 | 13) | 14-20-603-5043-A |
| 4) | I-149-IND-8838 | 9) | 14-20-603-4030-A | 14) | 14-20-603-5446 |
| 5) | I-149-IND-8839-A | 10) | 14-20-603-4032 | | |

If you have any questions, please call me or Mr. Brad Nesemeier at (928) 871-6587.

Sincerely,

Akhtar Zaman, Director
Minerals Department

Attachments
AZ/GLB/eab

Division of Oil, Gas and Mining

# OPERATOR CHANGE WORKSHEET

| ROUTING |
|---|
| 1. GLH |
| 2. CDW✓ |
| 3. FILE |

Change of Operator (Well Sold) — Designation of Agent

Operator Name Change — X — **Merger**

The operator of the well(s) listed below has changed, effective: **05-01-2002**

| **FROM:** (Old Operator): | **TO:** ( New Operator): |
|---|---|
| TEXACO EXPLORATION & PRODUCTION INC | CHEVRON USA INC |
| Address: 3300 NORTH BUTLER, STE 100 | Address: P O BOX 36366 |
| | |
| FARMINGTON, NM 87401 | HOUSTON,TX 79702 |
| Phone: 1-(505)-325-4397 | Phone: 1-(915)-687-2000 |
| Account No. N5700 | Account No. N0210 |

**CA No.** **Unit:** **ANETH**

## WELL(S)

| NAME | SEC TWN RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|---|---|---|---|---|---|---|
| ANETH U H123 | 23-40S-24E | 43-037-30223 | 7000 | INDIAN | OW | P |
| ANETH U G223 | 23-40S-24E | 43-037-30226 | 7000 | INDIAN | OW | P |
| ANETH U F323 | 23-40S-24E | 43-037-30234 | 7000 | INDIAN | OW | P |
| ANETH UNIT G423 | 23-40S-24E | 43-037-30311 | 7000 | INDIAN | OW | P |
| ANETH U H323 | 23-40S-24E | 43-037-30316 | 7000 | INDIAN | OW | P |
| ANETH U E423 | 23-40S-24E | 43-037-30370 | 7000 | INDIAN | OW | P |
| ANETH U E224 | 24-40S-24E | 43-037-30231 | 7000 | INDIAN | OW | P |
| ANETH U G424 | 24-40S-24E | 43-037-30334 | 7000 | INDIAN | OW | P |
| ANETH U F324 | 24-40S-24E | 43-037-30349 | 7000 | INDIAN | OW | P |
| ANETH U E424 | 24-40S-24E | 43-037-30350 | 7000 | INDIAN | OW | P |
| ANETH U F125 | 25-40S-24E | 43-037-30221 | 7000 | INDIAN | OW | P |
| ANETH U G225 | 25-40S-24E | 43-037-30222 | 7000 | INDIAN | OW | P |
| ANETH U E225 | 25-40S-24E | 43-037-30233 | 7000 | INDIAN | OW | P |
| ANETH U G425 | 25-40S-24E | 43-037-30238 | 7000 | INDIAN | OW | P |
| ANETH UNIT H325 | 25-40S-24E | 43-037-30239 | 7000 | INDIAN | OW | P |
| ANETH UNIT F325 | 25-40S-24E | 43-037-30237 | 7000 | INDIAN | OW | P |
| ANETH U H125 | 25-40S-24E | 43-037-30308 | 7000 | INDIAN | OW | P |
| ANETH UNIT E425 | 25-40S-24E | 43-037-30343 | 7000 | INDIAN | OW | P |
| ANETH U G325X | 25-40S-24E | 43-037-30374 | 7000 | INDIAN | OW | P |
| ANETH U E426 | 26-40S-24E | 43-037-30220 | 7000 | INDIAN | OW | P |

## OPERATOR CHANGES DOCUMENTATION

**Enter date after each listed item is completed**

1. (R649-2-10) Sundry or legal documentation was received from the **FORMER** operator on: 05/06/2002
2. (R649-2-10) Sundry or legal documentation was received from the **NEW** operator on: 04/12/2002
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 10/16/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 564408-0143
5. If **NO**, the operator was contacted contacted on: N/A

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 10/11/2002

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 10/11/2002

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

## DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 10/22/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 10/22/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

## STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

## FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

## INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: U8975810026

## FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

## LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS: Chevron USA Inc merged with Texaco Exploration & Production Inc to form ChevronTexaco Inc although all the Utah operations will be operated by Chevron USA Inc.**

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

FORM 9

# SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: See Attachment
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
7. UNIT or CA AGREEMENT NAME: Aneth Unit
8. WELL NAME and NUMBER: See Attachment
9. API NUMBER: See Attach
10. FIELD AND POOL, OR WILDCAT: Desert Creek

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER Injection wells

2. NAME OF OPERATOR: Resolute Natural Resources Company N2700

3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 534-4600

4. LOCATION OF WELL
FOOTAGES AT SURFACE: See Attachment COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

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

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

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

As of December 1, 2004, Chevron U.S.A. Inc. resigned as Operator of the Aneth Unit. The successor operator is Resolute Natural Resources Company.

NAME (PLEASE PRINT) Janet Pasque TITLE Vice President
SIGNATURE Janet Pasque DATE 11/30/04

(This space for State use only)

APPROVED 12/29/2004
EL
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(5/2000) (See Instructions on Reverse Side)

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

FORM 9

# SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: See attached exhibit.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT or CA AGREEMENT NAME: Aneth Unit

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER See attached exhibit.

8. WELL NAME and NUMBER: See attached exhibit.

2. NAME OF OPERATOR: Resolute Natural Resources Company

9. API NUMBER: See attached exhibit.

3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 534-4600

10. FIELD AND POOL, OR WILDCAT: Aneth

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

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

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

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

As of December 1, 2004, Chevron U.S.A. Inc. resigned as operator of the Aneth Unit. Resolute Natural Resources Company has been elected the successor operator.

RECEIVED
DEC 22 2004
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Chevron U.S.A. Inc. N0210 TITLE A. E. Wacker, Attorney-in-Fact

SIGNATURE A. E. Wacker DATE 12/20/2004

(This space for State use only)

APPROVED 12/29/2004
ER
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| D124 | 4303715701 | SI Producer | NE | NE | 24 | T40S | R23E | 520' FNL / 660' FEL | SL-0701010-C | See Attached SI and TA Well Status Spreadsheet |
| A213 | 4303715821 | Producer | SW | NW | 13 | T40S | R23E | 3287' FSL / 4631' FEL | SL-070968-A | |
| A412 | 4303715822 | SI Producer | SW | SW | 12 | T40S | R23E | 659' FSL / 4474' FEL | SL-070968-A | See Attached SI and TA Well Status Spreadsheet |
| A413 | 4303715823 | Producer | SW | SW | 13 | T40S | R23E | 657' FSL / 4631' FEL | SL-070968-A | |
| B113 | 4303715824 | Producer | NE | NW | 13 | T40S | R23E | 4602' FSL / 3311' FEL | SL-070968-A | |
| B313 | 4303715826 | Producer | NE | SW | 13 | T40S | R23E | 1972' FSL / 3302' FEL | SL-070968-A | |
| C412 | 4303715829 | Producer | SW | SE | 12 | T40S | R23E | 4606' FNL / 1980' FEL | SL-070968-A | |
| D312 | 4303715831 | Producer | NE | SE | 12 | T40S | R23E | 3290' FNL / 660' FEL | SL-070968-A | |
| E216 | 4303715833 | Producer | SW | NW | 16 | T40S | R24E | 2128' FNL / 662' FWL | NOG 99041323 | |
| E416 | 4303715834 | Producer | SW | SW | 16 | T40S | R24E | 442' FSL / 721' FWL | NOG 99041323 | |
| G216 | 4303715835 | Producer | SW | NE | 16 | T40S | R24E | 1975' FNL / 3304' FWL | NOG 99041323 | |
| G416 | 4303715836 | Producer | SW | SE | 16 | T40S | R24E | 660' FSL / 1980' FEL | NOG 99041323 | |
| H316 | 4303715837 | Producer | NE | SE | 16 | T40S | R24E | 1980' FSL / 662' FEL | NOG 99041323 | |
| A214 | 4303716030 | TA Producer | SW | NW | 14 | T40S | R23E | 1980' FNL / 740' FWL | SL-070968 | See Attached SI and TA Well Status Spreadsheet |
| A414 | 4303716031 | SI Producer | SW | SW | 14 | 40S | 23E | 820' FSL / 740' FWL | UTSL 070968 | |
| D123 | 4303716036 | Producer | NE | NE | 23 | T40S | R23E | 660' FNL / 660' FEL | SL-0701010 | |
| D311 | 4303716037 | SI Producer | NE | SE | 11 | 40S | 23E | 1980' FSL / 660' FEL | UTSL 070968B | |
| E123 | 4303716052 | Producer | NW | NW | 23 | T40S | R24E | 660' FNL / 660' FWL | I-149-IND-8838 | |
| E135 | 4303716056 | SI Producer | NW | NW | 35 | T40S | R24E | 760 FNL / 703' FWL | 14-20-603-2059 | See Attached SI and TA Well Status Spreadsheet |
| E209 | 4303716057 | Producer | SW | NW | 9 | T40S | R24E | 2105' FNL / 670' FWL | I-149-IND-8834 | |
| E215 | 4303716058 | Producer | SW | NW | 15 | T40S | R24E | 2109' FNL / 505' FWL | I-149-IND-8834 | |
| E222 | 4303716059 | Producer | SW | NW | 22 | T40S | R24E | 1960' FNL / 770' FWL | I-149-IND-8836 | |
| E335 | 4303716072 | SI Producer | NW | SW | 35 | T40S | R24E | 1900' FSL / 820' FWL | 14-20-603-2059 | See Attached SI and TA Well Status Spreadsheet |
| E415 | 4303716073 | Producer | SW | SW | 15 | T40S | R24E | 660' FSL / 660' FWL | I-149-IND-8834 | |
| F122 | 4303716075 | Producer | NE | NW | 22 | T40S | R24E | 660' FNL / 1980' FWL | I-149-IND-8836 | |
| F319 | 4303716081 | Producer | NE | SW | 19 | T40S | R24E | 1940' FSL / 2055' FWL | I-149-IND-8836 | |
| G115 | 4303716088 | Producer | NW | NE | 15 | T40S | R24E | 660' FNL / 1980' FEL | I-149-IND-8834 | |
| G222 | 4303716099 | Producer | SW | NE | 22 | T40S | R24E | 1890' FNL / 2140' FEL | I-149-IND-8836 | |
| G309 | 4303716102 | Producer | NW | SE | 9 | T40S | R24E | 2080' FSL / 1990' FEL | I-149-IND-8834 | |
| G329 | 4303716114 | Producer | NW | SE | 29 | T40S | R24E | 2045' FSL / 2125' FEL | 14-20-603-5043 | |
| G335 | 4303716115 | Producer | NW | SE | 35 | T40S | R24E | 1830' FSL / 1820' FEL | 14-20-603-2059 | |
| H415 | 4303716126 | Producer | SE | SE | 15 | T40S | R24E | 815' FSL / 812' FEL | I-149-IND-8834 | |
| H435 | 4303716130 | Producer | SE | SE | 35 | T40S | R24E | 510' FSL / 725' FEL | 14-20-603-2059 | |
| L130 | 4303716138 | Producer | NW | NE | 30 | T40S | R25E | 745' FNL / 1900' FEL | I-149-IND-8839 | |
| G134 | 4303716225 | Producer | NW | NE | 34 | T40S | R24E | 540' FNL / 2000' FEL | 14-20-603-2056 | S |
| G327 | 4303716226 | Producer | NW | SE | 27 | T40S | R24E | 2075' FSL / 1800' FEL | 14-20-603-2056 | |
| G334 | 4303716227 | SI Producer | NW | SE | 34 | T40S | R24E | 1980' FSL / 2130' FEL | 14-20-603-2056 | See Attached SI and TA Well Status Spreadsheet |
| H433 | 4303716229 | SI Producer | SE | SE | 33 | T40S | R24E | 745' FSL / 605' FEL | 14-20-603-2056 | See Attached SI and TA Well Status Spreadsheet |
| H434 | 4303716230 | SI Producer | SE | SE | 34 | T40S | R24E | 700' FSL / 500' FEL | 14-20-603-2056 | See Attached SI and TA Well Status Spreadsheet |
| H114 | 4303716310 | Producer | NE | NE | 14 | T40S | R24E | 730' FNL / 690' FEL | I-149-IND-8839 | |
| H409 | 4303716324 | Producer | SE | SE | 9 | T40S | R24E | 660' FSL / 660' FEL | I-149-IND-8834 | |
| G215 | 4303730066 | SI Producer | SW | NE | 15 | T40S | R24E | 2415' FNL / 1850' FEL | I-149-IND-8834 | See Attached SI and TA Well Status Spreadsheet |
| E114 | 4303730093 | Producer | NW | NW | 14 | T40S | R24E | 500' FNL / 100' FWL | I-149-IND-8837 | |
| F307 | 4303730115 | SI Producer | NE | SW | 7 | T40S | R24E | 2290' FSL / 1860' FWL | SL-067807 | See Attached SI and TA Well Status Spreadsheet |
| F121 | 4303730117 | Producer | NE | NW | 21 | T40S | R24E | 50' FNL / 2150' FWL | I-149-IND-8836 | |
| H307 | 4303730122 | TA Producer | NE | SE | 7 | T40S | R24E | 2120' FSL / 980' FEL | I-149-IND-8835 | See Attached SI and TA Well Status Spreadsheet |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| H414 | 4303730123 | Producer | SE | SE | 14 | 40S | 24E | 300' FSL / 500' FEL | I-149-IND-8839 | |
| G218 | 4303730131 | Producer | SW | NE | 18 | T40S | R24E | 1870' FNL / 2050' FEL | I-149-IND-8835 | |
| G418 | 4303730132 | Producer | SW | SE | 18 | T40S | R24E | 760' FSL / 1950' FEL | I-149-IND-8835 | |
| H119 | 4303730133 | Producer | NE | NE | 19 | T40S | R24E | 695' FNL / 570' FEL | I-149-IND-8836 | |
| E417 | 4303730134 | Producer | SW | SW | 17 | T40S | R24E | 710' FSL / 630' FWL | I-149-IND-8835 | |
| F120 | 4303730135 | Producer | NE | NW | 20 | T40S | R24E | 710' FNL / 1980' FWL | I-149-IND-8836 | |
| H318 | 4303730136 | Producer | NE | SE | 18 | T40S | R24E | 1980' FSL / 610' FEL | I-149-IND-8835 | |
| F317 | 4303730139 | Producer | NE | SW | 17 | T40S | R24E | 1980' FSL / 2140' FWL | I-149-IND-8835 | |
| E217 | 4303730142 | Producer | SW | NW | 17 | T40S | R24E | 1980' FNL / 550' FWL | I-149-IND-8835 | |
| G417 | 4303730144 | Producer | SW | SE | 17 | T40S | R24E | 660' FSL / 1980' FEL | I-149-IND-8835 | |
| E220 | 4303730150 | Producer | SW | NW | 20 | T40S | R24E | 1956' FNL / 584' FWL | I-149-IND-8836 | |
| G407 | 4303730151 | Producer | SW | SE | 7 | T40S | R24E | 650' FSL / 1960' FEL | SL-067807 | |
| G408 | 4303730152 | Producer | SW | SE | 8 | T40S | R24E | 774' FSL / 1991' FEL | I-149-IND-8834 | |
| H117 | 4303730153 | Producer | NE | NE | 17 | T40S | R24E | 866' FNL / 785' FEL | I-149-IND-8833 | |
| H320 | 4303730154 | Producer | NE | SE | 20 | T40S | R24E | 2036 FSL / 650' FEL | I-149-IND-8836 | |
| G220 | 4303730156 | Producer | SW | NE | 20 | T40S | R24E | 1860' FNL / 2086' FEL | I-149-IND-8833 | |
| H118 | 4303730157 | Producer | NE | NE | 18 | T40S | R24E | 626' FNL / 650' FEL | I-149-IND-8835 | |
| E408 | 4303730159 | TA Producer | SW | SW | 8 | T40S | R24E | 650' FSL / 626' FWL | I-149-IND-8833 | See Attached SI and TA Well Status Spreadsheet |
| F117 | 4303730160 | SI Producer | NE | NW | 17 | T40S | R24E | 522' FNL / 1956' FWL | I-149-IND-8835 | See Attached SI and TA Well Status Spreadsheet |
| D313 | 4303730162 | TA Producer | NE | SE | 13 | T40S | R23E | 1987' FSL / 782' FEL | SL-070968-A | See Attached SI and TA Well Status Spreadsheet |
| F320 | 4303730164 | Producer | NE | SW | 20 | T40S | R24E | 2130' FSL / 1950' FWL | I-149-IND-8836 | |
| E418 | 4303730165 | Producer | SW | SW | 18 | T40S | R24E | 978' FSL / 216' FWL | SL-067807 | |
| G217 | 4303730166 | TA Producer | SW | NE | 17 | T40S | R24E | 2170' FNL / 1860' FEL | I-149-IND-8835 | See Attached SI and TA Well Status Spreadsheet |
| G219 | 4303730167 | Producer | SW | NE | 19 | T40S | R24E | 1989' FNL / 1923' FEL | I-149-IND-8836 | |
| H319 | 4303730168 | Producer | NE | SE | 19 | T40S | R24E | 2086' FSL / 593' FEL | I-149-IND-8836 | |
| F318 | 4303730169 | Producer | NE | SW | 18 | T40S | R24E | 1578' FSL / 1773' FWL | I-149-IND-8835 | |
| C213 | 4303730173 | Producer | SW | NE | 13 | T40S | R23E | 1898' FNL / 1815' FEL | SL-070968-A | |
| F308 | 4303730176 | Producer | NE | SW | 8 | T40S | R24E | 1880' FSL / 1980' FWL | I-149-IND-8833 | |
| H308 | 4303730177 | TA Producer | NE | SE | 8 | T40S | R24E | 1890' FSL / 660' FEL | I-149-IND-8834 | See Attached SI and TA Well Status Spreadsheet |
| G208 | 4303730178 | TA Producer | SW | NE | 8 | T40S | R24E | 1939' FNL / 1939' FEL | I-149-IND-8833 | See Attached SI and TA Well Status Spreadsheet |
| E221 | 4303730181 | Producer | SW | NW | 21 | T40S | R24E | 1898' FNL / 619' FWL | I-149-IND-8836 | |
| H121 | 4303730183 | Producer | NE | NE | 21 | T40S | R24E | 520' FNL / 760' FEL | I-149-IND-8836 | |
| F321 | 4303730185 | Producer | NE | SW | 21 | T40S | R24E | 1980' FSL / 1720' FWL | I-149-IND-8836 | |
| F129 | 4303730187 | Producer | NE | NW | 29 | T40S | R24E | 550' FNL / 1690'FWL | 14-20-603-4030-A | |
| E421 | 4303730188 | Producer | SW | SW | 21 | T40S | R24E | 660' FSL / 660' FWL | I-149-IND-8836 | |
| E409 | 4303730189 | Producer | SW | SW | 9 | T40S | R24E | 910' FSL / 330' FWL | I-149-IND-8834 | |
| H317 | 4303730196 | Producer | NE | SE | 17 | T40S | R24E | 2230' FSL / 930' FEL | I-149-IND-8833 | |
| F119 | 4303730197 | TA Producer | NE | NW | 19 | T40S | R24E | 350' FNL / 1960' FWL | I-149-IND-8836 | See Attached SI and TA Well Status Spreadsheet |
| E313 | 4303730200 | Producer | NW | SW | 13 | T40S | R24E | 1815' FSL / 785' FWL | I-149-IND-8837 | |
| F216 | 4303730212 | TA Producer | SE | NW | 16 | T40S | R24E | 1848 FNL / 2043' FWL | NOG 99041323 | See Attached SI and TA Well Status Spreadsheet |
| G421 | 4303730214 | Producer | SW | SE | 21 | T40S | R24E | 380' FSL / 1980' FEL | I-149-IND-8836 | |
| H321 | 4303730216 | Producer | NE | SE | 21 | T40S | R24E | 2043' FSL / 591' FEL | I-149-IND-8836 | |
| F411 | 4303730217 | Producer | SE | SW | 11 | T40S | R24E | 561' FSL / 1798' FWL | I-149-IND-8837 | |
| G114 | 4303730218 | Producer | NW | NE | 14 | T40S | R24E | 660' FNL / 2220' FEL | I-149-IND-8837 | |
| E223 | 4303730219 | Producer | SW | NW | 23 | T40S | R24E | 2106' FNL / 660' FWL | I-149-IND-8838 | |
| E426 | 4303730220 | Producer | SW | SW | 26 | T40S | R24E | 660' FSL / 660' FWL | I-149-IND-8838 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| F125 | 4303730221 | Producer | NE | NW | 25 | T40S | R24E | 627' FNL / 1980' FWL | I-149-IND-8838 | |
| G225 | 4303730222 | Producer | SW | NE | 25 | T40S | R24E | 1760' FNL / 2170' FEL | I-149-IND-8838 | |
| H123 | 4303730223 | Producer | NE | NE | 23 | T40S | R24E | 660' FNL / 660' FEL | I-149-IND-8838 | |
| K330 | 4303730224 | Producer | NE | SW | 30 | T40S | R25E | 2020' FSL / 2010' FWL | I-149-IND-8839 | |
| M330 | 4303730225 | Producer | NE | SE | 30 | T40S | R25E | 2046' FSL / 726' FEL | I-149-IND-8839 | |
| G223 | 4303730226 | Producer | SW | NE | 23 | T40S | R24E | 2012' FNL / 1914' FEL | I-149-IND-8838 | |
| H136 | 4303730227 | Producer | NE | NE | 36 | T40S | R24E | 660' FNL / 620' FEL | 14-20-603-5443 | |
| G420 | 4303730228 | Producer | SW | SE | 20 | T40S | R24E | 770' FSL / 1900' FEL | I-149-IND-8836 | |
| G314 | 4303730230 | Producer | NW | SE | 14 | T40S | R24E | 1940' FSL / 2020' FEL | I-149-IND-8837 | |
| E224 | 4303730231 | Producer | SW | NW | 24 | T40S | R24E | 1850' FNL / 660' FWL | I-149-IND-8838 | |
| F326 | 4303730232 | Producer | NE | SW | 26 | T40S | R24E | 1914' FSL / 1914' FWL | I-149-IND-8838 | |
| E225 | 4303730233 | SI Producer | SW | NW | 25 | T40S | R24E | 2079' FNL / 790' FWL | I-149-IND-8838 | See Attached SI and TA Well Status Spreadsheet |
| F323 | 4303730234 | Producer | NE | SW | 23 | T40S | R24E | 1914' FSL / 1980' FWL | I-149-IND-8838 | |
| G426 | 4303730236 | Producer | SW | SE | 26 | T40S | R24E | 610' FSL / 1980' FEL | I-149-IND-8838 | |
| F325 | 4303730237 | Producer | NE | SW | 25 | T40S | R24E | 1850' FSL / 1840' FWL | I-149-IND-8838 | |
| G425 | 4303730238 | Producer | SW | SE | 25 | T40S | R24E | 480' FSL / 1840' FEL | I-149-IND-8838 | |
| H325 | 4303730239 | Producer | NE | SE | 25 | T40S | R24E | 1914' FSL / 660' FEL | I-149-IND-8838 | |
| J230 | 4303730240 | Producer | SW | NW | 30 | T40S | R25E | 1980' FNL / 660' FWL | I-149-IND-8839 A | |
| L230 | 4303730241 | Producer | SW | NE | 30 | T40S | R25E | 1930' FNL / 1898' FEL | I-149-IND-8839 | |
| J430 | 4303730243 | Producer | SW | SW | 30 | T40S | R25E | 660' FSL / 660' FWL | I-149-IND-8839 | |
| F214 | 4303730250 | Producer | SE | NW | 14 | T40S | R24E | 2030' FNL / 1881' FWL | I-149-IND-8837 | |
| E314 | 4303730266 | Producer | NW | SW | 14 | T40S | R24E | 1930' FSL / 660' FWL | I-149-IND-8837 | |
| F414 | 4303730274 | Producer | SE | SW | 14 | T40S | R24E | 593' FSL / 1771' FWL | I-149-IND-8837 | |
| C413 | 4303730298 | TA Producer | SW | SE | 13 | T40S | R23E | 810' FSL / 1980' FEL | SL-070968-A | See Attached SI and TA Well Status Spreadsheet |
| H125 | 4303730308 | Producer | NE | NE | 25 | T40S | R24E | 660' FNL / 560' FEL | I-149-IND-8838 | |
| F126 | 4303730310 | Producer | NE | NW | 26 | T40S | R24E | 560' FNL / 1940' FWL | I-149-IND-8838 | |
| G423 | 4303730311 | Producer | SW | SE | 23 | T40S | R24E | 660' FSL / 1980' FEL | I-149-IND-8838 | |
| H323 | 4303730316 | Producer | NE | SE | 23 | T40S | R24E | 1845' FSL / 507' FEL | I-149-IND-8838 | |
| G424 | 4303730334 | TA Producer | SW | SE | 24 | T40S | R24E | 660' FSL / 1980' FEL | I-149-IND-8838 | See Attached SI and TA Well Status Spreadsheet |
| E425 | 4303730343 | Producer | SW | SW | 25 | T40S | R24E | 760' FSL / 840' FWL | I-149-IND-8838 | |
| F322 | 4303730345 | Producer | NE | SW | 22 | T40S | R24E | 2130' FSL / 1980' FWL | I-149-IND-8836 | |
| E422 | 4303730346 | Producer | SW | SW | 22 | T40S | R24E | 890' FSL / 600' FWL | I-149-IND-8836 | |
| H126 | 4303730348 | Producer | NE | NE | 26 | T40S | R24E | 660' FNL / 830' FEL | I-149-IND-8838 | |
| F324 | 4303730349 | SI Producer | NE | SW | 24 | T40S | R24E | 1980' FSL / 2080' FWL | I-149-IND-8838 | See Attached SI and TA Well Status Spreadsheet |
| E424 | 4303730350 | TA Producer | SW | SW | 24 | T40S | R24E | 540' FSL / 450' FWL | I-149-IND-8838 | See Attached SI and TA Well Status Spreadsheet |
| H326 | 4303730368 | Producer | NE | SE | 26 | T40S | R24E | 1850' FSL / 520' FEL | I-149-IND-8838 | |
| G226 | 4303730369 | Producer | SW | NE | 26 | T40S | R24E | 2080' FNL / 1950' FEL | I-149-IND-8838 | |
| E423 | 4303730370 | Producer | SW | SW | 23 | T40S | R24E | 550' FSL / 580' FWL | I-149-IND-8838 | |
| E226 | 4303730371 | Producer | SW | NW | 26 | T40S | R24E | 1980' FNL 660 FWL | | |
| G325X | 4303730374 | Producer | NW | SE | 25 | T40S | R24E | 1850' FSL / 1710' FEL | I-149-IND-8838 | |
| G422 | 4303730375 | Producer | SW | SE | 22 | T40S | R24E | 500' FSL / 1950' FEL | I-149-IND-8836 | |
| H120X | 4303730404 | Producer | NE | NE | 20 | T40S | R24E | 280' FNL / 840' FEL | I-149-IND-8833 | |
| H322 | 4303730407 | Producer | NE | SE | 22 | T40S | R24E | 2070' FSL / 770' FEL | I-149-IND-8836 | |
| F136 | 4303730409 | Producer | NE | NW | 36 | T40S | R24E | 760' FNL / 2020' FWL | 14-20-603-5444 | |
| G236 | 4303730410 | Producer | SW | NE | 36 | T40S | R24E | 1950' FNL / 1980' FEL | 14-20-603-5443 | |
| H335 | 4303730412 | Producer | NE | SE | 35 | T40S | R24E | 1980' FSL / 700' FEL | 14-20-603-2059 | |

## Chevron USA to Resolute Natural Resources

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| J231 | 4303730413 | SI Producer | SW | NW | 31 | T40S | R25E | 1850' FNL / 660' FWL | 14-20-603-5443 | See Attached SI and TA Well Status Spreadsheet |
| G221X | 4303730516 | Producer | SW | NE | 21 | T40S | R24E | 1940' FNL / 1930' FEL | I-149-IND-8836 | |
| A114 | 4303730634 | SI Producer | NW | NW | 14 | 40S | 23E | 735' FNL / 718' FWL | UTSL 070968 | |
| B214 | 4303730635 | Producer | SE | NW | 14 | T40S | R23E | 1910' FNL / 1950' FWL | SL-070968 | |
| C114 | 4303730636 | SI Producer | NW | NE | 14 | T40S | R23E | 820' FNL / 1920' FEL | SL-070968 | See Attached SI and TA Well Status Spreadsheet |
| C314 | 4303730637 | Producer | NW | SE | 14 | T40S | R23E | 2140' FSL / 1870' FEL | SL-070968 | |
| D214 | 4303730638 | Producer | SE | NE | 14 | T40S | R23E | 2090' FNL / 790' FEL | SL-070968 | |
| D414 | 4303730639 | Producer | SE | SE | 14 | T40S | R23E | 570' FSL / 810' FEL | SL-070968 | |
| H127 | 4303730643 | Producer | NE | NE | 27 | T40S | R24E | 660' FNL / 510' FEL | 14-20-603-2056 | |
| H128 | 4303716224 | Injector | NE | NE | 28 | 40S | 24E | 810' FNL / 510' FEL | 14-20-603-2056 | |
| J229 | 4303730645 | SI Producer | SW | NW | 29 | 40S | 25E | 1980' FNL / 510' FWL | I-149-IND-8839A | |
| K130 | 4303730646 | Producer | NE | NW | 30 | T40S | R25E | 660' FNL / 2010' FWL | I-149-IND-8839 | |
| K131 | 4303730647 | Producer | NE | NW | 31 | T40S | R25E | 660' FNL / 1980' FWL | 14-20-603-372-A | |
| L430 | 4303730648 | Producer | SW | SE | 30 | T40S | R25E | 660' FSL / 1980' FEL | I-149-IND-8839 | |
| M130 | 4303730649 | Producer | NE | NE | 30 | T40S | R25E | 510' FNL / 780' FEL | I-149-IND-8839 | |
| E236 | 4303730716 | Producer | SW | NW | 36 | T40S | R24E | 1930' FNL / 630' FWL | 14-20-603-5444 | |
| F127 | 4303730718 | Producer | NE | NW | 27 | T40S | R24E | 620' FNL / 1910' FWL | 14-20-603-2056 | |
| F128 | 4303730728 | Producer | NE | NW | 28 | T40S | R24E | 660' FNL / 1910' FWL | 14-20-603-2056 | |
| C313SE | 4303731076 | SI Producer | C | SE | 13 | 40S | 23E | 1320' FSL / 1320' FEL | UTSL 070968A | |
| E118SE | 4303731077 | TA Producer | SW | NW | 18 | T40S | R24E | 1340' FNL / 1140' FWL | SL-067807 | See Attached SI and TA Well Status Spreadsheet |
| E121SE | 4303731078 | SI Producer | SW | NW | 21 | T40S | R24E | 1400' FNL / 1320' FWL | I-149-IND-8836 | See Attached SI and TA Well Status Spreadsheet |
| D113SE | 4303731382 | TA Producer | SE | NE | 13 | T40S | R23E | 1330' FNL / 100' FEL | SL-070968-A | See Attached SI and TA Well Status Spreadsheet |
| D213SE | 4303731383 | TA Producer | NE | SE | 13 | T40S | R23E | 2700' FNL / 150' FEL | SL-070968-A | See Attached SI and TA Well Status Spreadsheet |
| E218SE | 4303731385 | TA Producer | NW | SW | 18 | T40S | R24E | 2660' FNL / 1220' FWL | SL-067807 | See Attached SI and TA Well Status Spreadsheet |
| E407SW | 4303731386 | TA Producer | SW | SW | 7 | T40S | R24E | 0' FSL / 70' FWL | SL-067807 | See Attached SI and TA Well Status Spreadsheet |
| E115 | 4303731396 | Producer | NW | NW | 15 | T40S | R24E | 630' FNL / 660' FWL | I-149-IND-8834 | |
| F215 | 4303731397 | Producer | SE | NW | 15 | T40S | R24E | 1900' FNL / 1990' FWL | I-149-IND-8834 | |
| F415 | 4303731398 | Producer | SE | SW | 15 | T40S | R24E | 680' FSL / 1880' FWL | I-149-IND-8834 | |
| G315X | 4303731408 | Producer | NW | SE | 15 | T40S | R24E | 1880' FSL / 1980' FEL | I-149-IND-8834 | |
| H116 | 4303731409 | TA Producer | NE | NE | 16 | T40S | R24E | 660' FNL / 900' FEL | NOG 99041323 | |
| H129 | 4303731529 | Producer | NE | NE | 29 | T40S | R24E | 730' FNL / 730' FEL | 14-20-603-4030 | |
| H135 | 4303731531 | Producer | NE | NE | 35 | T40S | R24E | 503' FNL / 813' FEL | 14-20-603-2059 | |
| E407SE | 4303731534 | Producer | NE | NW | 18 | 40S | 24E | 199' FNL / 1602' FWL | UTSL 067807 | |
| B412 | 4303731537 | TA Producer | SE | SW | 12 | T40S | R23E | 901' FSL / 1600' FWL | SL-070968-A | |
| F214SE | 4303731684 | Producer | SE | NW | 14 | T40S | R24E | 2580' FNL / 2350' FWL | I-149-IND-8837 | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Division of Oil, Gas and Mining

# OPERATOR CHANGE WORKSHEET

| ROUTING |
|---|
| 1. GLH |
| 2. CDW |
| 3. FILE |

X Change of Operator (Well Sold) — Designation of Agent/Operator

Operator Name Change — Merger

The operator of the well(s) listed below has changed, effective: **12/1/2004**

| **FROM:** (Old Operator): | **TO:** ( New Operator): |
|---|---|
| N0210-Chevron USA, Inc. | N2700-Resolute Natural Resources Company |
| PO Box 4791 | 1675 Broadway, Suite 1950 |
| Houston, TX 77210-4791 | Denver, CO 80202 |
| Phone: 1-(713) 752-7431 | Phone: 1-(303) 534-4600 |

**CA No.** **Unit:** **ANETH**

**WELL(S)**

| NAME | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|---|---|---|---|---|---|---|---|---|
| ANETH U F214 | 14 | 400S | 240E | 4303730250 | 7000 | Indian | OW | P |
| ANETH UNIT E314 | 14 | 400S | 240E | 4303730266 | 7000 | Indian | OW | P |
| ANETH UNIT F414 | 14 | 400S | 240E | 4303730274 | 7000 | Indian | OW | P |
| ANETH U F322 | 22 | 400S | 240E | 4303730345 | 7000 | Indian | OW | P |
| ANETH U E422 | 22 | 400S | 240E | 4303730346 | 7000 | Indian | OW | P |
| ANETH U F323 | 23 | 400S | 240E | 4303730234 | 7000 | Indian | OW | P |
| ANETH UNIT G423 | 23 | 400S | 240E | 4303730311 | 7000 | Indian | OW | P |
| ANETH U H323 | 23 | 400S | 240E | 4303730316 | 7000 | Indian | OW | P |
| ANETH U G424 | 24 | 400S | 240E | 4303730334 | 7000 | Indian | OW | S |
| ANETH U E225 | 25 | 400S | 240E | 4303730233 | 7000 | Indian | OW | S |
| ANETH UNIT F325 | 25 | 400S | 240E | 4303730237 | 7000 | Indian | OW | P |
| ANETH U G425 | 25 | 400S | 240E | 4303730238 | 7000 | Indian | OW | P |
| ANETH UNIT H325 | 25 | 400S | 240E | 4303730239 | 7000 | Indian | OW | P |
| ANETH U H125 | 25 | 400S | 240E | 4303730308 | 7000 | Indian | OW | P |
| ANETH UNIT E425 | 25 | 400S | 240E | 4303730343 | 7000 | Indian | OW | P |
| ANETH U F326 | 26 | 400S | 240E | 4303730232 | 7000 | Indian | OW | P |
| ANETH U G426 | 26 | 400S | 240E | 4303730236 | 7000 | Indian | OW | P |
| ANETH UNIT F126 | 26 | 400S | 240E | 4303730310 | 7000 | Indian | OW | P |
| ANETH U H126 | 26 | 400S | 240E | 4303730348 | 7000 | Indian | OW | P |
| ANETH UNIT J230 | 30 | 400S | 250E | 4303730240 | 7000 | Indian | OW | P |
| ANETH U L230 | 30 | 400S | 250E | 4303730241 | 7000 | Indian | OW | P |
| ANETH U J430 | 30 | 400S | 250E | 4303730243 | 7000 | Indian | OW | P |

## OPERATOR CHANGES DOCUMENTATION

**Enter date after each listed item is completed**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12/22/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 12/13/2004
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 11/22/2004
4. Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: _____ requested

6b. Inspections of LA PA state/fee well sites complete on: 12/20/2004

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA not yet

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: _____

## DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 12/29/2004
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 12/29/2004
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: separate list
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

## FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: B001263

## INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: B001264

## FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number B001262
2. The **FORMER** operator has requested a release of liability from their bond on: not yet
The Division sent response by letter on: _____

## LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: _____

**COMMENTS:**

**FEDERAL APPROVAL OF THIS ACTION IS NECESSARY**

FORM 9

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

**5.LEASE DESIGNATION AND SERIAL NUMBER:** I-149-IND-8838

## SUNDRY NOTICES AND REPORTS ON WELLS

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

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

**7.UNIT or CA AGREEMENT NAME:** ANETH

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** ANETH UNIT F325

**2. NAME OF OPERATOR:** RESOLUTE NATURAL RESOURCES

**9. API NUMBER:** 43037302370000

**3. ADDRESS OF OPERATOR:** 1675 Boradway Ste 1950 , Denver, CO, 80202

**PHONE NUMBER:** 303 534-4600 Ext

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

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 1850 FSL 1840 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NESW Section: 25 Township: 40.0S Range: 24.0E Meridian: S

**COUNTY:** SAN JUAN

**STATE:** UTAH

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

**TYPE OF SUBMISSION**

- ✓ NOTICE OF INTENT — Approximate date work will start: 8/15/2013
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

**TYPE OF ACTION**

| | | |
|---|---|---|
| ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| ☐ WILDCAT WELL DETERMINATION | ✓ OTHER | OTHER: ESP repair |

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

Resolute proposes to repair the electric submersible pump in the Aneth Unit F-325 by cleaning out the wellbore to the KOP and replacing the pump to restore production. Attached is the proposed procedure and the wellbore diagram and tubing detail.

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

**Date:** September 23, 2013

**By:** Dark K Quant

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Sherry Glass | 303 573-4886 | Sr Regulatory Technician |

| SIGNATURE | DATE |
|---|---|
| N/A | 7/29/2013 |

RECEIVED: Jul. 29, 2013

RESOLUTE
NATURAL RESOURCES

**AU F-325**
**1850 FSL, 1840 FWL**
**NESW sec 25-T40S-R24E**
**43-037-30237**

---

Job scope includes: clean out to KOP & replacement of ESP.

**Procedure**

1) MIRU. Kill well as necessary. Pressure test tubing. NDWH. NUBOPE.
2) POH & SB 2-7/8" production tubing & LD ESP.
   Note: *Contact Bill Albert / Joseph Begay to visually inspect tubing.*
   Note: *Equipped with 60 ft chemical stinger.*
   Note: *Notify FloTek (Gillette, Wy) of ESP pull date. (307-685-3224)*
3) RIH with bit/scraper/string float on production tubing.
   Note: *Consult Global for desired 'string float' depth.*
4) Clean out to 5412' (Top Window) with N2-Unit. Circulate clean.
   Note: *Window #1: 5412'-18'*
   Note: *Window #2: 5426'-32'*
   Note: *Window #3: 5436'-42'*
   Note: *Window #4: 5460'-66'*
5) POH & LD bit/scraper/string float.
6) PU & RIH with ESP (Centrilift).
   Note: *Land BHA at ±5400' (13 ft above window).*
   Note: *Hang-off capillary string just above profile nipple.*
7) Start ESP (monitor motor temperature & tubing pressure).
8) RDMOL. Apply appropriate chemical treatment.



RECEIVED: Jul. 29, 2013

RESOLUTE NATURAL RESOURCES

# SCHEMATIC

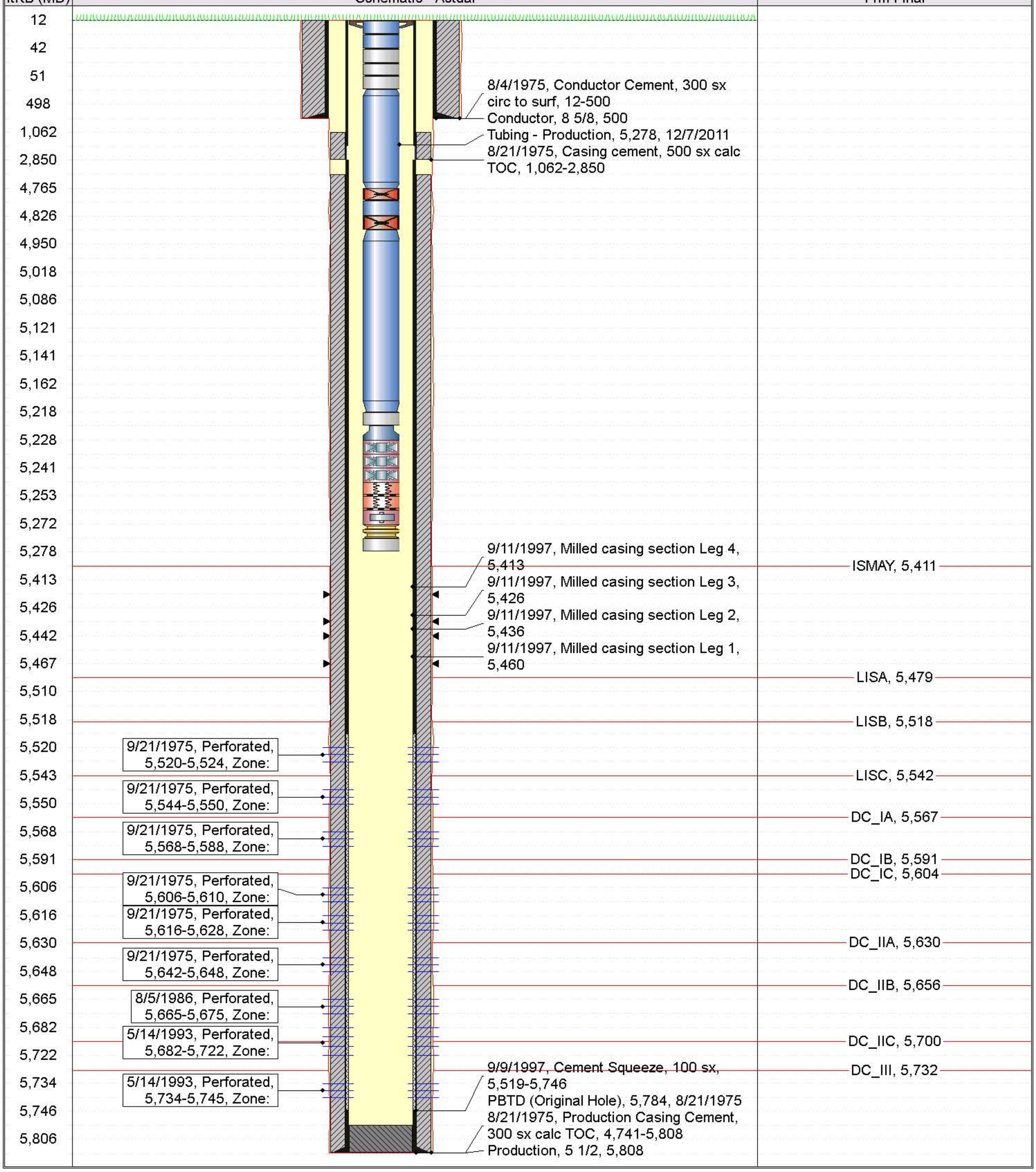
## Well Name: F325 Aneth Unit

| API Number | Surface Legal Location | Section | Township | Range | Well Spud Date/Time | Field Name | State/Province |
|---|---|---|---|---|---|---|---|
| 43037302370000 | NE SW | 25 | 40S | 24E | | Aneth | Utah |

Edit

| Original KB Elevation (ft) | KB-Ground Distance (ft) | Total Depth (ftKB) | PBTD (All) (ftKB) |
|---|---|---|---|
| | | 7,517.0 | Original Hole - 5784.0 |

Wellbore Config: Horizontal - Original Hole, 7/26/2013 10:37:56 AM






Report Printed: 7/26/2013

RESOLUTE NATURAL RESOURCES

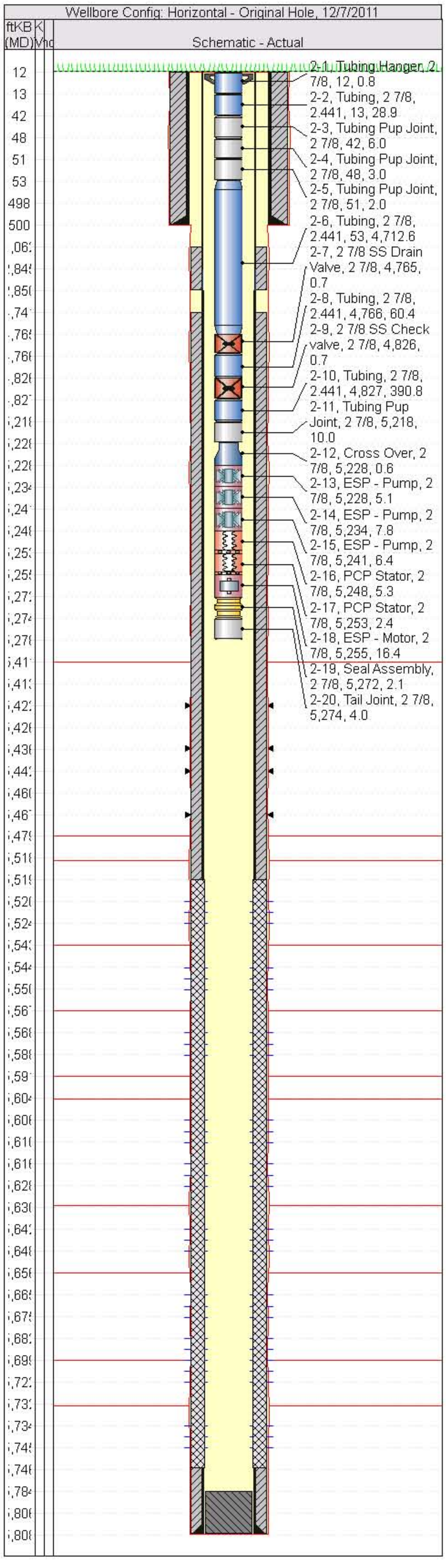
# Tubing

## Well Name: F325 Aneth Unit

| API Number | Surface Legal Location | Section | Township | Range | Well Spud Date/Time | Field Name | State/Province | Working Interest (% |
|---|---|---|---|---|---|---|---|---|
| 43037302370000 | NE SW | 25 | 40S | 24E | | Aneth | Utah | 61.77 |

Edit

Wellbore Config: Horizontal - Original Hole, 12/7/2011




## Tubing

| Tubing Description | Set Depth (ftKB) | Run Date | Pull Date |
|---|---|---|---|
| Tubing - Production | 5,277.9 | 12/7/2011 | |

Edit

| Jts | Item Description | OD (in) | ID (in) | Wt (lbs/ft) | Grade | Top Thread | Len (ft) | Top (ftKB) | Btm (ft |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Tubing Hanger | 2 7/8 | | | | | 0.80 | 12.0 | 12.8 |
| 1 | Tubing | 2 7/8 | 2.441 | 6.40 | J-55 | | 28.91 | 12.8 | 41.7 |
| 1 | Tubing Pup Joint | 2 7/8 | | | | | 6.00 | 41.7 | 47.7 |
| 1 | Tubing Pup Joint | 2 7/8 | | | | | 3.00 | 47.7 | 50.7 |
| 1 | Tubing Pup Joint | 2 7/8 | | | | | 2.00 | 50.7 | 52.7 |
| 149 | Tubing | 2 7/8 | 2.441 | 6.40 | J-55 | | 4,712.... | 52.7 | 4,765.3 |
| 1 | 2 7/8 SS Drain Valve | 2 7/8 | | | | | 0.70 | 4,765.3 | 4,766.0 |
| 2 | Tubing | 2 7/8 | 2.441 | 6.40 | J-55 | | 60.39 | 4,766.0 | 4,826.4 |
| 1 | 2 7/8 SS Check valve | 2 7/8 | | | | | 0.70 | 4,826.4 | 4,827.1 |
| 12 | Tubing | 2 7/8 | 2.441 | 6.40 | J-55 | | 390.81 | 4,827.1 | 5,217.9 |
| 1 | Tubing Pup Joint | 2 7/8 | | | | | 10.00 | 5,217.9 | 5,227.9 |
| 1 | Cross Over | 2 7/8 | | | | | 0.56 | 5,227.9 | 5,228.5 |
| 1 | ESP - Pump | 2 7/8 | | | | | 5.09 | 5,228.5 | 5,233.5 |
| 1 | ESP - Pump | 2 7/8 | | | | | 7.85 | 5,233.5 | 5,241.4 |
| 1 | ESP - Pump | 2 7/8 | | | | | 6.40 | 5,241.4 | 5,247.8 |
| 1 | PCP Stator | 2 7/8 | | | | | 5.25 | 5,247.8 | 5,253.0 |
| 1 | PCP Stator | 2 7/8 | | | | | 2.36 | 5,253.0 | 5,255.4 |
| 1 | ESP - Motor | 2 7/8 | | | | | 16.35 | 5,255.4 | 5,271.8 |
| 1 | Seal Assembly | 2 7/8 | | | | | 2.15 | 5,271.8 | 5,273.9 |
| 1 | Tail Joint | 2 7/8 | | | | | 4.00 | 5,273.9 | 5,277.9 |

**FEDERAL APPROVAL OF THIS ACTION IS NECESSARY**

FORM 9

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

**5.LEASE DESIGNATION AND SERIAL NUMBER:** I-149-IND-8838

## SUNDRY NOTICES AND REPORTS ON WELLS

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

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

**7.UNIT or CA AGREEMENT NAME:** ANETH

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** ANETH UNIT F325

**2. NAME OF OPERATOR:** RESOLUTE NATURAL RESOURCES

**9. API NUMBER:** 43037302370000

**3. ADDRESS OF OPERATOR:** 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

**PHONE NUMBER:** 303 534-4600 Ext

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

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 1850 FSL 1840 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NESW Section: 25 Township: 40.0S Range: 24.0E Meridian: S

**COUNTY:** SAN JUAN

**STATE:** UTAH

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

**TYPE OF SUBMISSION**

- ✓ NOTICE OF INTENT — Approximate date work will start: 2/20/2016
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

**TYPE OF ACTION**

| | | |
|---|---|---|
| ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| ☐ WILDCAT WELL DETERMINATION | ✓ OTHER | OTHER: ESP repair |

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

Resolute Natural Resources respectfully submits this sundry as notice of an ESP Repair planned on the above well, Attached are the procedures and schematics

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

**Date:** February 24, 2016

**By:** Dark K Quist

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Erin Joseph | 303 573-4886 | Sr. Regulatory Analyst |

| SIGNATURE | DATE |
|---|---|
| N/A | 2/18/2016 |

RECEIVED: Feb. 18, 2016

# Resolute

## Natural Resources

**Re:** AU F-325 ESP Repair

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**Procedure**

1) MIRU. Kill well as necessary. NDWH. NUBOPE.
2) POH & SB 2-7/8" production tubing & LD ESP.
   Note: *Contact Bill Albert / Joseph Begay to visually inspect tubing.*
   Note: *Capillary string hung-off just above ESP.*
3) PU & RIH with bit/scraper on production tubing from derrick.
4) Clean out to 5412' (Top Window). Circulate clean.
   Note: *Window #1: 5412'-18'*
   Note: *Window #2: 5426'-32'*
   Note: *Window #3: 5436'-42'*
   Note: *Window #4: 5460'-66'*
5) POH & LD bit/scraper.
6) Acidize OH Lateral(s): 10,000 gals 20% HCL
   Note: *Set treating packer at ±5250' with no tailpipe (csg collars @ 5233' & 5264')*
   Note: *Pressure test surface line to 3800#*
   Note: *Max Treating Pressure = 3500#*
   Note: *Desired Q = 3 to 5 BPM*
   Note: *Establish injection rate with FW (±5 bbls)*
   Note: *Pump acid*
   Note: *Pump FW displacement (±15 bbls past PKR)*
   Note: *Leave well shut-in for 2-hrs after pumping*
   Note: *Flow/swab back acid load*
7) POH & SB production tubing & LD TRT packer.
8) PU & RIH with ESP (Centrilift).
   Note: *Land BHA at ±5400' (12 ft above window).*
   Note: *Hang-off capillary string just above ESP.*
9) Start ESP (monitor motor temperature & tubing pressure).
10) RDMOL. Apply appropriate chemical treatment.

# Resolute

**Well Name: AU F-325**

| API Number | Section | Qtr/Qtr | Township | Range | Block | Reg Spud Date | Field Name | County | State/Prov | KB Elev |
|---|---|---|---|---|---|---|---|---|---|---|
| 4303730237 | 25 | NE SW | 40S | 24E | | 6/3/1975 00:00 | Aneth Unit | San Juan | Utah | 62.39 |

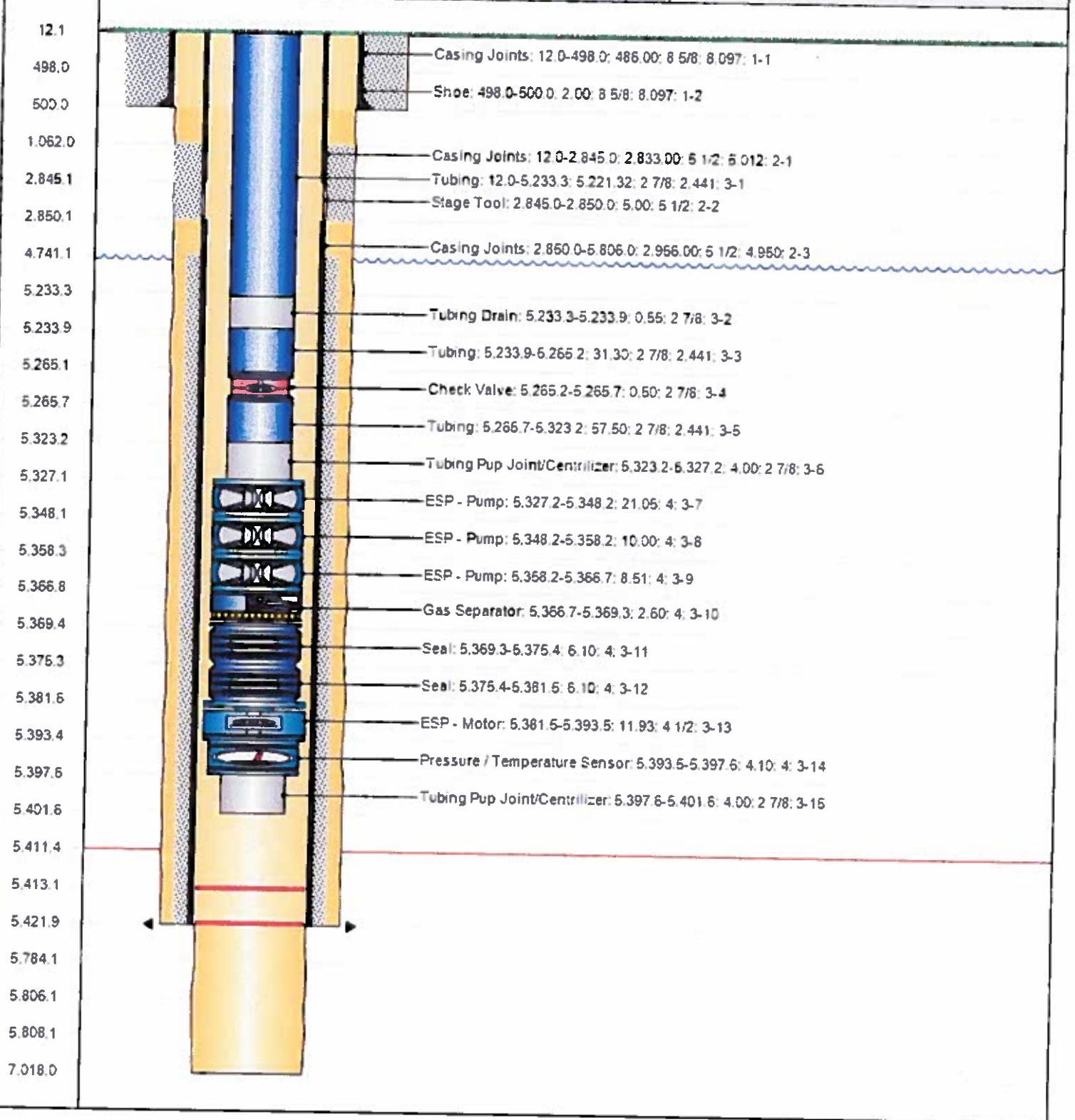
**Most Recent Job**

| Job Category | Primary Job Type | Secondary Job Type | Start Date | End Date |
|---|---|---|---|---|
| Completion/Workover | Repair - ESP Pump | | 8/12/2013 | 8/19/2013 |

**TD: 7,517.0**

Horizontal - Lateral 4, 2/12/2016 9:30:09 AM

Vertical schematic (actual)



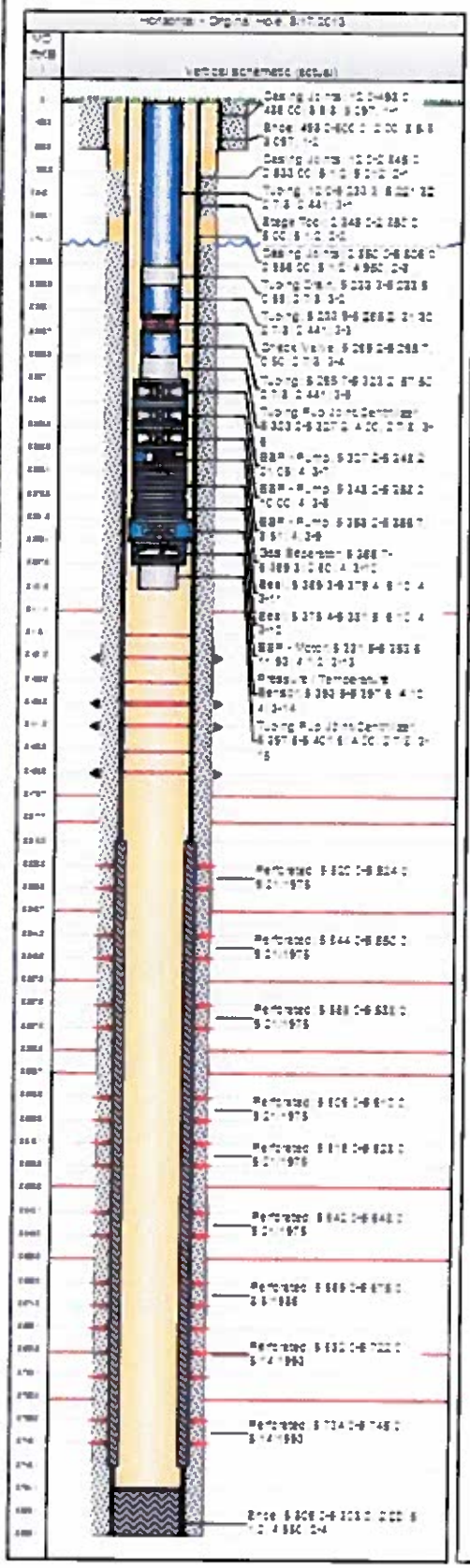



Printed: 2/12/2016

# Resolute

**Well Name: AU F-325**

| API Number | Section | Qtr/Qtr | Township | Range | Block | Reg Spud Date | Field Name | County | State/Prov | Well No. |
|---|---|---|---|---|---|---|---|---|---|---|
| 4303730237 | 25 | NE SW | 40S | 24E | | 8/3/1975 00:00 | Aneth Unit | San Juan | Utah | 82.39 |



## Tubing

| Tubing Description | Set Depth (ftKB) | Run Date | Pull Date |
|---|---|---|---|
| Tubing - Production | 5,401.6 | 8/17/2013 | |

| Jts | Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Top Thread | Len (ft) | Top (ftKB) | Btm (ftKB) |
|---|---|---|---|---|---|---|---|---|---|
| 167 | Tubing | 2 7/8 | 2.441 | 6.50 | J-55 | | 5,221.32 | 12.0 | 5,233.3 |
| 1 | Tubing Drain | 2 7/8 | | | SS | | 0.55 | 5,233.3 | 5,233.9 |
| 1 | Tubing | 2 7/8 | 2.441 | 6.50 | J-55 | | 31.30 | 5,233.9 | 5,265.2 |
| 1 | Check Valve | 2 7/8 | | | SS | | 0.50 | 5,265.2 | 5,265.7 |
| 2 | Tubing | 2 7/8 | 2.441 | 6.50 | J-55 | | 57.50 | 5,265.7 | 5,323.2 |
| 1 | Tubing Pup Joint/Centrilizer | 2 7/8 | | | | | 4.00 | 5,323.2 | 5,327.2 |
| 1 | ESP - Pump | 4 | | | | | 21.05 | 5,327.2 | 5,348.2 |
| 1 | ESP - Pump | 4 | | | | | 10.00 | 5,348.2 | 5,358.2 |
| 1 | ESP - Pump | 4 | | | | | 8.51 | 5,358.2 | 5,366.7 |
| 1 | Gas Separator | 4 | | | | | 2.60 | 5,366.7 | 5,369.3 |
| | Seal | 4 | | | | | 6.10 | 5,369.3 | 5,375.4 |
| | Seal | 4 | | | | | 6.10 | 5,375.4 | 5,381.5 |
| 1 | ESP - Motor | 4 1/2 | | | | | 11.93 | 5,381.6 | 5,393.5 |
| 1 | Pressure / Temperature Sensor | 4 | | | | | 4.10 | 5,393.5 | 5,397.6 |
| 1 | Tubing Pup Joint/Centrilizer | 2 7/8 | | | | | 4.00 | 5,397.6 | 5,401.6 |



Printed: 2/12/2016

FORM 9

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

**5.LEASE DESIGNATION AND SERIAL NUMBER:** I-149-IND-8838

## SUNDRY NOTICES AND REPORTS ON WELLS

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

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

**7.UNIT or CA AGREEMENT NAME:** ANETH

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** ANETH UNIT F325

**2. NAME OF OPERATOR:** RESOLUTE NATURAL RESOURCES

**9. API NUMBER:** 43037302370000

**3. ADDRESS OF OPERATOR:** 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

**PHONE NUMBER:** 303 534-4600 Ext

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

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 1850 FSL 1840 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NESW Section: 25 Township: 40.0S Range: 24.0E Meridian: S

**COUNTY:** SAN JUAN

**STATE:** UTAH

**11.**

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

**TYPE OF SUBMISSION**

- ☐ NOTICE OF INTENT
  Approximate date work will start:
- ✓ SUBSEQUENT REPORT
  Date of Work Completion: 2/23/2016
- ☐ SPUD REPORT
  Date of Spud:
- ☐ DRILLING REPORT
  Report Date:

**TYPE OF ACTION**

| | | |
|---|---|---|
| ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| ☐ WILDCAT WELL DETERMINATION | ✓ OTHER | OTHER: ESP Repair |

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

Resolute Natural Resources respectfully submits this sundry as notice that the ESP repair on the above well was completed according to previously approved procedures

**Accepted by the Utah Division of Oil, Gas and Mining**
**FOR RECORD ONLY**
March 10, 2016

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Erin Joseph | 303 573-4886 | Sr. Regulatory Analyst |

| SIGNATURE | DATE |
|---|---|
| N/A | 3/9/2016 |

RECEIVED: Mar. 09, 2016