

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE WATER SANDS LOCATION INSPECTION SUB REPORT/abd.

DATE FILED APRIL 24, 1995

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. USA-U-44004 INDIAN

DRILLING APPROVED: JULY 5, 1995

SPUDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: LOCATION ABANDONED PER BLM EFF. MARCH 25, 1996

FIELD: MONUMENT BUTTE FIELD

UNIT: NA

COUNTY: DUCHESNE

WELL NO. MONUMENT BUTTE FEDERAL 3-9 API NO. 43-013-31520

LOCATION 1922' FSL FT. FROM (N) (S) LINE. 605' FEL FT. FROM (E) (W) LINE. NE SE 1/4 - 1/4 SEC. 3

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
9S	17E	3	SNYDER OIL CORPORATION				

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

SUBMIT IN TRIPLICATE

(Other instructions on reverse side)

APR 24 1995

Form approved.
Budget Bureau No. 1004-0136
Expires December 31, 1991

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK OF OIL, GAS & MINERAL WELLS

1a. TYPE OF WORK DRILL DEEPE

1b. TYPE OF WELL
OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

5. LEASE DESIGNATION AND SERIAL NO.
USA-U-44004

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Not Applicable

7. UNIT AGREEMENT NAME
Not Applicable

8. FARM OR LEASE NAME WELL NO
Monument Butte Federal 3-9

2. NAME OF OPERATOR
Snyder Oil Corporation

9. API WELL NO.

3. ADDRESS OF OPERATOR
1625 Broadway, Suite 2200; Denver, Colorado 80202

10. FIELD AND POOL OR WILDCAT
Monument Butte

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *)
At Surface **1922' FSL 605' FEL**
At proposed Prod. Zone **Same as above**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NESE Section 3, T9S, R17E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately nine (9) miles southeast of Myton, Utah

12. County **Duchesne** 13. STATE **Utah**

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
605'

16. NO. OF ACRES IN LEASE **279.49'** 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.
1,339'

19. PROPOSED DEPTH **5,950'** 20. ROTARY OR CABLE TOOLS **Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5,030'

22. APPROX. DATE WORK WILL START*
June 05, 1995

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	J-55	24.0#	0-300'
7-7/8"	5-1/2" M-50	M-50	15.5#	5,950'

* Cement volumes may change due to hole size as calculated from caliper log.

EIGHT-POINT RESOURCE PROTECTION PLAN ATTACHED

I hereby certify that Snyder Oil Corporation is authorized by the proper lease interest owners to conduct lease operations associated with this application for permit to drill the Monument Butte Federal #3-9, Federal Lease #UTU-61252. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Snyder Oil Corporation Nationwide Bond #WY-2272, which will insure responsibility for compliance with all the terms and conditions of that portion of the lease associated with this application.

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 Jim McKinney TITLE Sr. Engineering Technician DATE April 12, 1995

PERMIT NO. 43-013-31520 APPROVAL DATE _____
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:
APPROVED BY J.P. Matthews TITLE Petroleum Engineer DATE 7/5/95

*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.

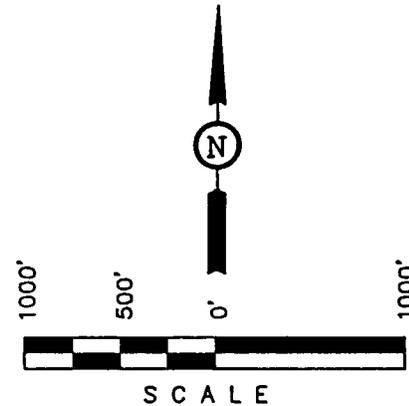
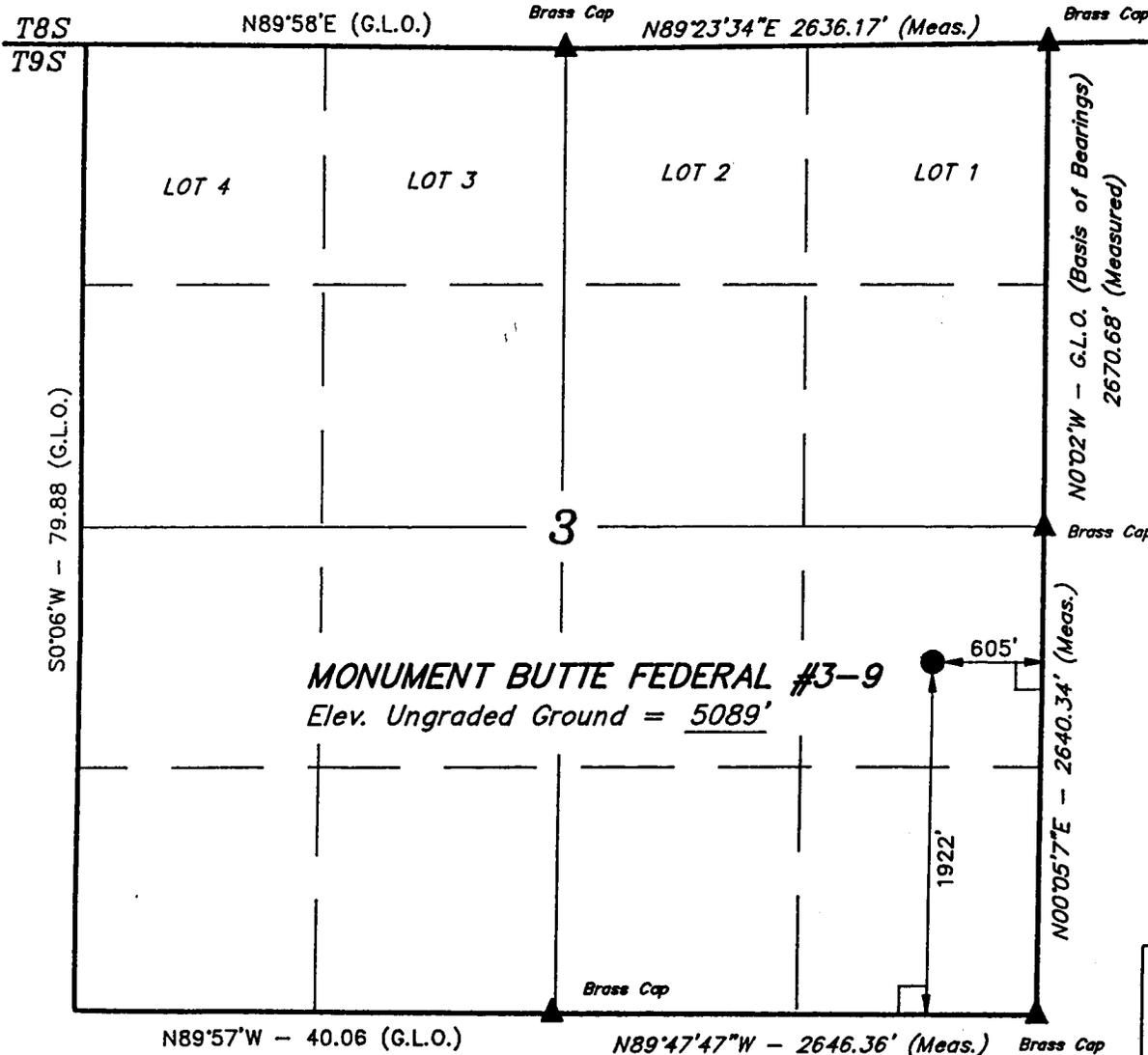
T9S, R17E, S.L.B.&M.

SNYDER OIL CORP.

Well location, MONUMENT BUTTE FEDERAL #3-9, located as shown in the NE 1/4 SE 1/4 of Section 3, T9S, R17E, S.L.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 3, T9S, R17E, S.L.B.&M. TAKEN FROM THE PARIETTE DRAW SW, QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5030 FEET.



CERTIFICATE

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

Robert L. Kay

REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (801) 789-1017

LEGEND:

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

SCALE 1" = 1000'	DATE SURVEYED: 2-20-95	DATE DRAWN: 2-21-95
PARTY G.S. D.G. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE SNYDER OIL CORP.	

SNYDER OIL CORPORATION
Lease #USA U 44004, Monument Butte Federal 3-9
NE¼SE¼, Section 3, T9S, R17E
Duchesne County, Utah

DRILLING PROGNOSIS

1. Estimated Tops of Important Geologic Markers

Uinta	Surface	Castle Peak	5430'
Green River	1450'	Green River LS	5850'
Douglas Creek	4610'	Total Depth	5950'

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

Mahogany Branch	3000'	Water	(Possible)
Douglas Creek	4610'	Oil/Gas	(Primary Objective)
Green River LS	5850'	Oil/Gas	(Possible)

Any shallow water zones encountered will be adequately protected and reported.
All potentially productive hydro-carbon zones will be cemented off.

3. Pressure Control Equipment - Schematic Attached

- A. Type:** Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer and 3,000 psi wellhead.

The Blow-Out Preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. Kill line (2-inch minimum).
5. Two (2) kill line valves, one of which will be a check valve (2-inch minimum).
6. 3-inch (minimum) choke line.
7. Two (2) choke line valves (3-inch minimum).
8. Two (2) adjustable chokes.
9. Pressure gauge on choke manifold.

3. Pressure Control Equipment - continued

10. Upper kelly cock valve with handle available.
11. Full opening internal blowout preventer or drill pipe safety valve able to fit all connections.
12. Fill-up line above the uppermost preventer.

B. Pressure Rating: 3,000 psi

C. Testing Procedure:

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1) when the annular preventer is initially installed;
- 2) whenever any seal subject to test pressure is broken;
- 3) following related repairs; and
- 4) at thirty (30) day intervals.

In addition to the above, the annular preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1) when the BOP is initially installed;
- 2) whenever any seal subject to test pressure is broken;
- 3) following related repairs; and
- 4) at thirty (30) day intervals.

3. Pressure Control Equipment - continued

In addition to the above, the pipe and blind rams will be activated each trip, but not more than once each day.

All blowout preventer drills and tests will be recorded in the International Association of Drilling Contractors (IADC) driller's log.

D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps. The fluid reservoir capacity will be double the accumulator capacity and the fluid level will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in *Onshore Oil & Gas Order Number 2*.

F. Special Drilling Operations:

In addition to the equipment already specified in Items A through E, above, the following equipment will be in place and operational during air/gas drilling:

1. Properly lubricated and maintained rotating head.
2. Spark arresters on engines or water cooled exhaust.
3. Blooie line discharge 100 feet from well bore and securely anchored.
4. Straight run on blooie line.
5. Deduster equipment (not required for aerated water system).

F. Special Drilling Operations - continued

6. All cuttings and circulating medium(s) shall be directed into a reserve or blooie pit.
7. Float valve above bit.
8. Automatic igniter or continuous pilot light on the blooie line (not required for aerated water system).
9. Compressors located in the opposite direction from the blooie line and at a minimum of 100 feet from the well bore.
10. Mud circulating equipment, water, and mud materials (does not have to be pre-mixed) sufficient to maintain the capacity of the hole and circulating tanks or pits.

G. Miscellaneous Information:

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*.

The choke manifold and BOP extension rods with hand wheels will be located outside the rig sub-structure. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill the Monument Butte Federal #3-9.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.

4. The Proposed Casing and Cementing Program

A. Casing Program: All New

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft.</u>	<u>Grade</u>	<u>Joint</u>	<u>Depth Set</u>
20"	16"	Steel	—	—	0- 60' ¹
12-1/4"	8-5/8"	24.0#	J-55	ST&C	0-300'
7-7/8"	5-1/2"	15.5#	M-50	LT&C	0-5950'

¹ Conductor optional.

The surface casing will have centralizers on the bottom three (3) joints of casing, with a minimum of one (1) centralizer per joint starting with the shoe joint.

A. Casing Program - continued

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

B. Cementing Program:

Surface Conductor - Set with approximately five (5) cubic yards (yd³) of Redi-Mix cement, circulated back to surface.

Surface Casing - Set with approximately 225 sx of Class "G" cement + additives, circulated back to surface.

Production Casing - Lead with approximately 315 sx of Pacesetter "Light" cement + additives.

Tail with approximately 375 sx of 50/50 Poz-Mix cement + additives.

A sufficient quantity of tail cement will be utilized to achieve full coverage across the upper Green River Formation. Estimated top of cement ≈ 1450'.

The above cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole size and will be determined by running a caliper log on the drilled hole.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

5. Mud Program - Visual Monitoring

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0- 3000'	Fresh Wtr/Gel	8.2- 9.2	28-34	No Control
3000'-5950'	2% KCL Wtr/Gel	9.2- 9.8	30-35	+ 25 cc's

¹ The initial drilling fluids system will consist of fresh water with bentonite gel for viscosity as needed for as long and/or as deep as possible (approximately 3000'). Should hole conditions deteriorate prior to reaching total depth, an alternative drilling fluids system would be utilized consisting of a KCL/gel mud (with 2% KCL water as the base fluid).

5. Mud Program - Continued

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

No chromate additives will be used in the mud system on Federal or Indian lands without prior approval of the Bureau of Land Management in order to ensure adequate protection of fresh water aquifers.

Hazardous substances specifically listed by the Environmental Protection Agency as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing or completion operations.

6. Evaluation Program

Logs: FDC/CNL/SP/GR¹ - from 5950' to 4000'
Micro-SFL - from 5950' to 300'

¹ Pull Gamma Ray to surface.

DST's: None anticipated.

Cores: None anticipated.

The proposed Evaluation Program may change at the discretion of the well site geologist, with prior approval from the Authorized Officer, Bureau of Land Management.

Stimulation: No stimulation or frac treatment has been formulated for this test at this time. The drill site, as approved, will be of sufficient size to accommodate all completion activities.

Whether the well is completed as a dry hole or as a producer, *Well Completion and Recompletion Report and Log* (Form #3160-4) will be submitted to the Vernal District Office not later than thirty (30) days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164.

Two (2) copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will

5. Mud Program - Continued

be filed with Form #3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer, Vernal District Office,

Bureau of Land Management, 170 South 500 East, Vernal, Utah 84078,
Telephone: (801) 789-1362.

7. Abnormal Conditions

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area.

Maximum anticipated bottom hole pressure equals approximately 2975 psi (calculated at 0.50 psi/ft of hole) and maximum anticipated surface pressure equals approximately 1666 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

8. Anticipated Starting Dates and Notification of Operations

A. Anticipated Starting Dates:

Anticipated Commencement Date June 05, 1995
Drilling Days Approximately 7 Days
Completion Days Approximately 7 days

B. Notification of Operations:

Vernal District Office, Bureau of Land Management
Address : 170 South 500 East; Vernal, Utah 84078
Phone: (801) 789-1362
Fax: (801) 789-3634

In the event after-hours approvals are necessary, please contact one of the following individuals:

<u>Contact Title</u>	<u>Contact Name</u>	<u>Home Phone</u>
Petroleum Engineer	Wayne Bankert	(801) 789-1362
Petroleum Engineer	Ed Forsman	(801) 789-7077

The Vernal District Office, Bureau of Land Management will be notified at least twenty-four (24) hours ***PRIOR*** to the commencement of the following activities:

B. Notification of Operations - Continued

1. Spudding of the well. This oral report will be followed up with a *Sundry Notice* (Form 3160-5);
2. initiating pressure tests of the blow-out preventer and related equipment;
3. running casing and cementing of ALL casing strings.

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR, Part 3160), and this approved *Application for Permit to Drill*. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved *Application for Permit to Drill* must be on location during construction, drilling and completion operations. The following items are emphasized:

DRILLING/PRODUCING OPERATING STANDARDS

There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed.

All wells, whether drilling, producing, suspended or abandoned shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, the lease serial number, the well number and the surveyed description of the well.

Any changes in operations must have prior approval from the Authorized Officer (AO), Vernal District Office, Bureau of Land Management.

Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls will remain in use until the well is either completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection will be recorded on the daily drilling report. All BOP tests must be recorded in the daily drilling report. ***NOTIFY RESOURCE AREA PETROLEUM ENGINEER AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF PRESSURE TESTS.***

In accordance with *Onshore Oil & Gas Order Number 1*, this well will be reported on MMS Form #3160-6, *Monthly Report of Operations and Production*, starting with the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with the Royalty Management Program, Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217.

Notification of Operations - Continued

All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL-3A will be reported to the Vernal District Office. Major events will be reported verbally within twenty-four (24) hours and will be followed with a written report within fifteen (15) days. "Other than Major Events" will be reported in writing within fifteen (15) days. "Minor Events" will be reported on the *Monthly Report of Operations and Production* (Form #3160-6)

No well abandonment operations will be commenced without the prior approval of the Authorized Officer. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the Area Petroleum Engineer.

A *Notice of Intention to Abandon* (Form #3160-5) will be filed with the Authorized Officer within fifteen (15) days following the granting of oral approval to plug and abandon.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch: Company Name, Well Name and Number, Location by Quarter/Quarter, Section, Township, Range, and the Federal Lease Number.

A *Subsequent Report of Abandonment* (Form #3160-5) will be submitted within thirty (30) days following the actual plugging of the well bore. This report will indicate where plugs were placed and the current status of surface restoration operations. If surface restoration has not been completed at that time, a follow-up report on Form #3160-5 will be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

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

Not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than ninety (90) days, the operator shall notify the Authorized Officer by letter or "Sundry Notice", of the date on which such production has begun or resumed. The notification shall provide as a minimum, the following informational items:

Notification of Operations - Continued

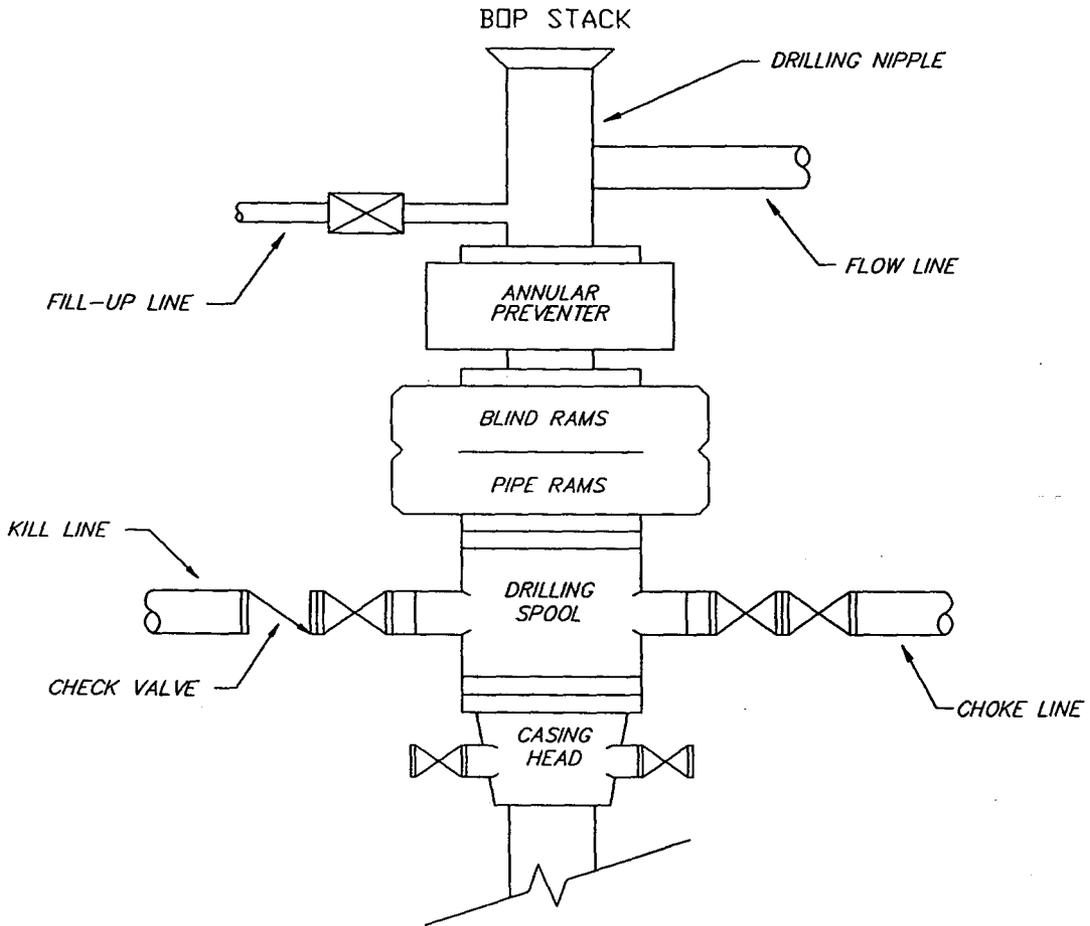
- a. Operator name, address, and telephone number
- b. Well name and number
- c. Well location " $\frac{1}{4}$, $\frac{1}{4}$, Section, Township, Range, P.M."
- d. Date well was placed in a producing status
- e. The nature of the wells production, i.e.: crude oil casing gas, or natural gas and entrained liquid hydrocarbons.
- f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e.: state or private.

Within sixty (60) days following construction of a new tank battery, a site facility diagram of the battery showing actual conditions and piping must be submitted to the Authorized Officer. Facility diagrams shall be filed within sixty (60) days after existing facilities are modified. For complete information as to what is required on these diagrams, please refer to 43 CFR 3162.7-4(d).

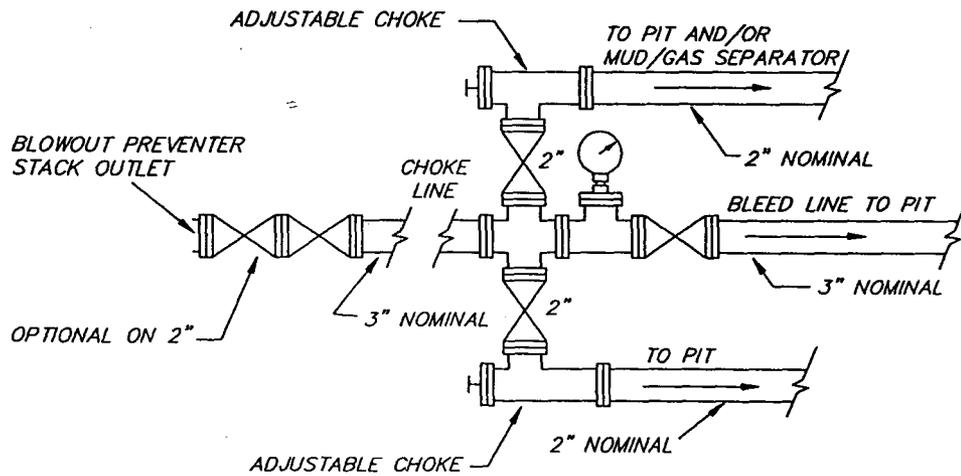
Pursuant to *Onshore Oil & Gas Order Number 1*, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in such a manner which conforms with applicable federal laws and regulations and with state and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal and Indian lands.

SNYDER OIL CORPORATION

TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER SCHEMATIC



TYPICAL 3,000 p.s.i. CHOKE MANIFOLD SCHEMATIC



SNYDER OIL CORPORATION
Lease #USA-U-44004, Monument Butte Federal 3-9
NE¼SE¼, Section 3, T9S, R17E
Duchesne County, Utah

MULTI-POINT SURFACE USE AND OPERATIONS PLAN
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1. Existing Roads - Refer to Maps "A" and "B" (shown in ORANGE)

- A. The proposed well site is staked and four (4) 200-foot reference stakes are present.
- B. To reach the location from the community of Myton, Utah; proceed generally southwest approximately 1.5 miles on U.S. Highway 40 (a paved U.S. Highway), thence generally south/southeast approximately 7.0 on an existing paved (an ungraded Duchesne County road), thence generally south/southeast approximately 7.0 miles on an existing paved road (an upgraded Duchesne County road), thence continuing generally south/southeast approximately 4.6 miles on an existing Duchesne County road (crowned & ditched with a gravel surface), thence generally northeast approximately 1.3 miles on an existing oilfield road (crowned & ditched with a gravel surface), thence generally southeast approximately fifty (50) feet to the proposed Monument Butte Federal 3-9 well location.
- C. Access roads - refer to Maps "A" and "B".
- D. Access roads within a one (1) mile radius - refer to Map "B".
- E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the Monument Butte Federal #3-9 well location.

2. Planned Access Roads - Refer to Map "B" (shown in GREEN)

Approximately thirty (30) feet of new road construction will be required for access to the proposed Monument Butte Federal #3-9 well location.

Planned Access Roads - Continued

- A. Width - maximum thirty (30) foot overall right-of-way with an eighteen (18) foot running surface, crowned and ditched for drilling and completion operations.
- B. Construction standard - the proposed access road will be constructed in accordance with roading guidelines established for oil & gas exploration and development activities as referenced in the joint BLM/USFS publication: *Surface Operating Standards for Oil and Gas Exploration and Development, Third Edition.*

The access road will be designed and constructed to meet the standards of the anticipated traffic flow and all-weather requirements. Construction will include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed and safe roadway.

Prior to construction/upgrading, the roadway shall be cleared of any snow cover and allowed to dry completely.

Traveling off of the thirty (30) foot right-of-way will not be allowed.

Drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or the accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at a frequent intervals by means of cutouts.

Upgrading shall not be allowed during muddy conditions.

Should mud holes develop, they shall be filled in and detours around them avoided.

- C. Maximum grade - 3%.
- D. Turnouts - turnouts will be constructed along the access road route as necessary or required to allow for the safe passage of traffic. None anticipated for this short segment of new access road.
- E. Drainage design - the access road will be upgraded and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The proposed road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.

2. Planned Access Roads - Continued

- F. Culverts, cuts and fills - no culverts will be required along the access road route. There are no major cuts and/or fills on/along the proposed access road route.
- G. Surfacing material - any construction materials which may be required for surfacing of the access road will be purchased from a local contractor having a permitted source of materials within the general area, if required by the Authorized Officer, Bureau of Land Management.
- H. Gates, cattleguards or fence cuts - no gates, cattleguards or fence cuts will be required on/along the proposed access road route.
- I. Road maintenance - during both the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and will be maintained in accordance with the original construction standards.

All drainage ditches will be kept clear and free-flowing, and will also be maintained in accordance with the original construction standards.

The access road right-of-way will be kept free of trash during all operations.

- J. The proposed access road route has been centerline staked.

3. Location of Existing Wells Within a One-Mile Radius - Please Refer to Map "C".

- A. Water wells - none known.
- B. Abandoned wells NW ¼NE ¼, Section 10, T9S, R17E.
 NW ¼NW ¼, Section 11, T9S, R17E.
 SE ¼NW ¼, Section 2, T9S, R17E.
- C. Temporarily abandoned wells - none known.
- D. Disposal wells - none known.
- E. Drilling wells - none known.
- F. Producing wells - NW ¼SW ¼, Section 3, T9S, R17E.
 SE ¼NW ¼, Section 3, T9S, R17E.
 SW ¼SE ¼, Section 3, T9S, R17E.
 SW ¼SE ¼, Section 3, T9S, R17E.
 SE ¼NE ¼, Section 10, T9S, R17E.
 NW ¼SE ¼, Section 2, T9S, R17E.
 SE ¼NW ¼, Section 2, T9S, R17E.
 NE ¼SW ¼, Section 2, T9S, R17E.
 SW ¼SE ¼, Section 2, T9S, R17E.
 SE ¼SW ¼, Section 2, T9S, R17E.

3. Location of Existing Wells Within a One-Mile Radius - Continued

SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 2, T9S, R17E.
SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 2, T9S, R17E.

- G. Shut-in wells - none known.
- H. Injection wells - none known.
- I. Monitoring wells - none known.

4. Location of Existing and/or Proposed Facilities Owned By Snyder Oil Corporation Within a One (1) Mile Radius

SOCO Monument Butte 2-3 SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 3, T9S, R17E.
SOCO Monument Butte 1-3 NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 3, T9S, R17E.
SOCO Monument Butte 3-8 NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 3, T9S, R17E.

A. Existing

- 1. Tank batteries.

SOCO Monument Butte 2-3 SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 3, T9S, R17E.
SOCO Monument Butte 1-3 NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 3, T9S, R17E.

- 2. Production facilities.

SOCO Monument Butte 2-3 SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 3, T9S, R17E.
SOCO Monument Butte 1-3 NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 3, T9S, R17E.

- 3. Oil gathering lines - none known.
- 4. Gas gathering lines - none known.

B. New Facilities Contemplated

- 1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty (20) feet from the toe of the back slope or top of the fill slope.
- 2. Should drilling result in the establishment of commercial production from the Monument Butte Federal #3-9 well location, production facilities will require an area approximately 250' X 125'.

A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via "*Sundry Notice*" (Form 3160-5) for approval **PRIOR** to commencement of installation operations.

3. Location of Existing Wells Within a One-Mile Radius - Continued

3. Production facilities will be accommodated on the disturbed portion of the well pad. Construction materials needed for installation of the production facilities will be obtained from the site; any additional materials needed will be purchased from a local supplier having a permitted source of materials in the general area.

A dike will be constructed completely around those production facilities which are designed to hold fluids (e.g., condensate tanks and/or produced water tanks). These dikes will be constructed of compacted subsoil, be impervious, be designed to hold 100% of the capacity of the largest tank, and be independent of the back cut.

4. All permanent [on-site for six (6) months or longer] above-the-ground structures constructed or installed on the well location (including pumping units, tank batteries, etc.) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Five (5) State Rocky Mountain Interagency Committee.

All production facilities will be painted within six (6) months of installation. Facilities required to comply with *Occupational Safety and Health Act Rules and Regulations* will be excluded from this painting requirement.

The required paint color is Carlsbad Canyon, Munsell standard color number 2.5Y 6/2.

5. If at any time the facilities located on public lands and authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change), the Bureau of Land Management will process a change in authorization to the appropriate statute). The authorization will be subject to the appropriate rental or other financial obligation as determined by the Authorized Officer.

- C. The production (emergency) pit will be fenced "*sheep-tight*" with woven wire mesh having two (2) top strands of barbed wire held in place by metal side posts and wooden corner "H" braces in order to protect livestock and wildlife (refer to Item 9F, page's 9 and 10).

5. Location and Type of Water Supply - Continued

- D. During drilling and subsequent operations, all equipment and vehicles will be confined to the access road and any additional areas which may be specified in the approved Application for Permit to Drill.
- E. Reclamation of disturbed areas no longer needed for operations will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer, Bureau of Land Management.

5. Location and Type of Water Supply

- A. Fresh water for drilling will be obtained from an irrigation drain owned by Joe Shields and located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 15, Township 4 South, Range 2 West, (USBM) in Duchesne County, Utah; permit #43-1721 (A10906/t17981).

In the event this source of water proves inadequate, fresh water for use in drilling and cementing operations would be obtained from a concrete diversion box in Babcock Draw which is owned by Nebeker Trucking. The proposed diversion point is located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 34, Township 3 South, Range 2 West (USBM) in Duchesne County, Utah; permit #43-1721 (A10906/t17981).

- B. Water will be transported via tank truck over existing roads from the point of diversion to the proposed Monument Butte Federal #3-9 well location. No new road construction will be required on/along the proposed water haul route.

Access across any off-lease federal lands which may be crossed on/along the proposed water haul route will be secured under a separate right-of-way authorization to be issued by the Authorized Officer, Book Cliffs Resource Area Office, Bureau of Land Management.

- C. No water well will be drilled on this location.

6. Source of Construction Materials

- A. Any construction materials which may be required for surfacing of the drill pad will be obtained from a private contractor having a previously approved (private) source of materials within the general area.

Please refer to Item 2G (page 2) for information regarding any construction materials which may be required for on the access road.

7. Methods of Handling Waste Materials - Continued

- B. No construction materials will be taken from Federal or Indian lands without prior approval from the appropriate Surface Management Agency.
- C. If production is established, any construction materials which may be required for surfacing of the access road and/or installation of production facilities will be purchased from a local supplier having a permitted (private) source of materials within the general area.
- D. No new access roads for transportation of these construction materials will be required.

7. Methods of Handling Waste Materials

- A. Cuttings - the drilled cuttings will be deposited in the reserve pit.
- B. Drilling fluids - including any salts and/or chemicals utilized in the mud system will be contained in the reserve pit.

The reserve pit will be constructed so as not to leak, break, or allow discharge. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within ninety (90) days after termination of drilling and completion activities.

In the event adverse weather conditions prevent removal of the fluids from the reserve pit within this time period, an extension may be granted by the Authorized Officer upon receipt of a written request from Snyder Oil Corporation.

- C. Produced fluids - liquids produced during completion operations will either be placed in test tanks on the well location (when a gel frac system is used) or into the reserve pit (when a foam frac system is used). Produced water will be confined to a lined pit (reserve pit) for a period not to exceed ninety (90) days after initial well completion.

During this ninety (90) day period, in accordance with *Onshore Oil & Gas Order Number 7*, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted to the Authorized Officer for review and approval as applicable. Failure to file an application within the time frame allowed will be considered as an incidence of noncompliance.

7. **Methods of Handling Waste Materials - Continued**

Any spills of oil, gas, salt water or any other potentially hazardous substance will be cleaned up and immediately removed to an approved disposal site.

D. Sewage - portable, self-contained chemical toilets will be provided by Rocket Sanitation for human waste disposal. Upon completion of operations (or as required) the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. Sewage disposal will be in strict accordance with applicable State of Utah rules and regulations regarding sewage treatment and disposal.

E. Garbage and other waste material - all garbage and non-flammable waste materials will be contained in a self contained, portable dumpster or trash cage.

Upon completion of operations, or as needed, the accumulated trash will be hauled off-site to an approved sanitary landfill. No trash will be placed in the reserve pit.

F. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the well location. No potentially adverse materials or substances will be left on the location.

Any open pits will be fenced during the drilling operation and said fencing will be maintained until such time as the pits have been backfilled.

G. Hazardous materials - Snyder Oil Corporation has no plans to utilize, store, transport or dispose of more than 10,000 pounds of any chemical or chemicals listed on or subject to the Environmental Protection Agency's *Consolidated List of Chemicals Subject to Reporting Under Title III of the Superfund Amendments and Reauthorization Act (SARA)* of 1986, or any extremely hazardous substances at or above the threshold planning quantities as defined in 40 CFR 355, on the Monument Butte Federal #3-9 lease.

8. **Ancillary Facilities**

None anticipated.

9. Wellsite Layout

- A. Figure #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the proposed well location (refer to Figure #2).

A minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles.

- B. Figure #1 is a diagram showing a typical rig layout. No permanent living facilities are planned on the Monument Butte Federal Federal #3-9 well location. There will be a maximum of three (3) trailers on location during drilling operations, which will serve as both office and housing for the mud logger, geologist and toolpusher.
- C. All equipment and vehicles will be confined to the approved areas in this Application for Permit to Drill (i.e., access road and well pad areas).
- D. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via *Sundry Notice* (Form 3160-5) for approval *prior* to the commencement of installation operations. Please refer to Item 4B2 (page 4) for additional information in this regard.
- E. If porous subsoil materials (i.e., gravel, scoria, sand, faulted rock structures, etc.) are encountered during reserve pit construction, an impervious liner will be installed in order to prevent drilling water loss through seepage.

If required, this liner will have a permeability less than or equal to 1×10^{-7} cm/sec. The liner will be chemically compatible with all substances which may be put into the pit and will be installed so that it will not leak. Liners made of any man-made synthetic material will be of sufficient strength and thickness to withstand normal installation and pit use.

- F. Prior to the commencement of drilling operations, the reserve pit will be fenced "sheep tight" on the three (3) non-working sides according to the following minimum standards (if/as required by the Authorized Officer):
1. 32-inch net wire shall be used with two (2) strands of barbed wire on top of (above) the net wire.
 2. The net wire shall be no more than four (4) inches above the ground. The first strand of barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.

9. Wellsite Layout - Continued

3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
4. Standard steel, wood, or pipe posts shall be used between the corner braces. The maximum distance between any two (2) posts shall be no greater than sixteen (16) feet.
5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The fourth (4th) side of the reserve pit will be fenced immediately upon removal of the drilling rig and the fencing will be maintained until the pit is backfilled.

- G. Any hydrocarbons on the pit will be removed as soon as possible after drilling operations are completed.

10. Plans for Reclamation of the Surface

- A. Rat and mouse holes will be backfilled and compacted from bottom to top immediately upon release of the completion rig from the location.
- B. If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substance(s) will be flagged overhead or covered with wire mesh to protect migrating waterfowl.
- C. Producing Operations:
 1. Immediately upon well completion, the well location and surrounding area(s) will be cleared of all debris, materials, trash and junk not required for production. Any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
 2. If a plastic or nylon reinforced pit liner is used, it shall be torn and perforated before backfilling of the reserve pit.
 3. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc. will be removed. All other waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities.
 4. The reserve pit and that portion of the location and access road not needed for production facilities and/or operations will be reclaimed within ninety (90) days from the date of well completion, weather permitting.

Plans for Reclamation of the Surface - Continued

5. For production, the fill slopes will be reduced from a 1.5:1 slope to a 4:1 slope and the cut slopes will be reduced from a 1.5:1 slope to a 4:1 slope by pushing the fill material back up into the cut.
6. Upon completion of backfilling, leveling and recontouring, all disturbed surfaces (access road and well pad areas) will be scarified to a depth of one (1) foot and left with a rough surface. The stockpiled topsoil will then be evenly redistributed to a depth of six (6) inches over the reclaimed area(s).
7. Prior to commencement of seeding operations, the seedbed will be prepared by disking on the contour to a depth of four (4) to six (6) inches, leaving no depressions that would trap water or form ponds.

All disturbed surfaces (including the access road and well pad areas) will be reseeded with a seed mixture to be recommended by the Authorized Officer, Bureau of Land Management.

8. Seed will be drilled on the contour with a seed drill equipped with a depth regulator in order to ensure even depths of planting. Seed will be planted between one-quarter (1/4) to one-half (1/2) inches deep, with shrub seeds planted in rows separate from the grass seed, unless otherwise directed by the Authorized Officer, Bureau of Land Management.

Where drilling is not possible (too steep or rocky), hand broadcast the seed at double the rate indicated above and rake or chain the area to cover the broadcast seed.

9. Fall seeding will be completed after September 15th and prior to ground frost. If applicable, spring seeding will be completed after the frost has left the ground and prior to May 15th.

The seeding will be repeated until a satisfactory stand, as determined by the Authorized Officer, is achieved. The first evaluation of growth will be made following the completion of the first growing season.

D. Dry Hole/Abandoned Well Location:

1. At such time as the well is physically plugged and abandoned, Snyder Oil Corporation will submit a "Subsequent Report of Abandonment" to the Authorized Officer for approval. At that time, the Bureau of Land Management will formulate the appropriate surface rehabilitation requirements and attach them as the conditions of approval for final abandonment.

11. Surface Ownership

The well location and proposed access road route are situated on surface estate which is owned by the United States of America and administered by:

Area Manager
Book Cliffs Resource Area Office
Bureau of Land Management
170 South 500 East
Vernal, Utah 84078
Telephone: (801) 789-1362

12. Other Information

A. General Description of the Project Area:

The project area is situated in the Uinta Basin section of the Colorado Plateaus physiographic province in an area of northeastern Utah which has undergone intensive natural gas development activities within the last few years. The overall area is characterized by moderately to severely eroded uplands located between the White River to the south and the Green River to the east. This area is classified as a "High Plains Steppe" (cold desert) and exhibits a sparse to moderate vegetation density which is typical of semi-arid areas at higher elevations (4500-5500').

Generally, local flora consists of native grasses such as salt grass, galleta grass, needle-and-threadgrass, Indian ricegrass; woody species such as shadscale, horsebrush, black sagebrush, fringe sagebrush, big sagebrush, rabbitbrush, and greasewood along the dry drainages.

Local fauna consists primarily of mule deer, mountain lions, coyotes, badgers, skunks, rabbits, raptors, and various smaller vertebrate and invertebrate species.

12. Other Information - Continued

There are no known threatened or endangered species that would be affected by implementation of operations on the Monument Butte Federal #3-9 well location.

B. Surface Use Activities:

The primary surface use is for livestock grazing.

C. Proximity of Water, Occupied Dwellings, Archaeological, Historical or Cultural Sites:

1. The closest source of permanent water is the Duchesne River, located approximately two (9) miles north of the proposed well location.
2. The closest occupied dwellings are located approximately twelve (12) miles to the east of the proposed well location in the community of Myton, Utah.
3. Snyder Oil Corporation will be responsible for informing all persons associated with this project that they will be subject to prosecution for damaging, altering, excavating or removing any archaeological, historical, or vertebrate fossil objects or site(s).

If archaeological, historical or vertebrate fossil materials are discovered, Snyder Oil Corporation will suspend all operations that further disturb such materials and immediately contact the Authorized Officer. Operations will not resume until written authorization to proceed is issued by the Authorized Officer.

Within five (5) working days the Authorized Officer will evaluate the discovery and inform Snyder Oil Corporation of actions that will be necessary to prevent loss of significant cultural or scientific values.

Snyder Oil Corporation will be responsible for the cost of any mitigation required by the Authorized Officer. The Authorized Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that the required mitigation has been completed, Snyder Oil Corporation will be allowed to resume operations.

D. Additional Requirements for Operations on Lands Administered by the Bureau of Land Management:

12. Other Information - Continued

1. Snyder Oil Corporation will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the Bureau of Land Management, or the Uintah County Extension Office.

On lands administered by the Bureau of Land Management, it is required that a "Pesticide Use Proposal" shall be submitted, and approval obtained, prior to the application of herbicides or other pesticides or possible hazardous chemicals for the control of noxious weeds.

2. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on federal lands after conclusion of drilling operations or at any other time without the proper authorization from the Bureau of Land Management.

However, if Bureau of Land Management authorization is obtained, it is only a temporary measure to allow Snyder Oil Corporation the time to make arrangements for permanent storage at a commercial facility.

3. Snyder Oil Corporation shall contact the Bureau of Land Management between 24 and 48 hours prior to commencement of construction activities on the access road and/or well location: (801) 789-1362. The Bureau of Land Management shall be notified upon site completion and prior to moving drilling tools onto the location.

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

Representative:

Snyder Oil Corporation
James M. McKinney, Sr. Reservoir Engineering Technician
1625 Broadway, Suite 2200
Denver, Colorado 80202
Telephone: (303) 592-8500

- * Contact for any additional information which may be required for approval of this Application for Permit to Drill.

Certification:

12. Other Information - Continued

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations (43 CFR 3100), *Onshore Oil & Gas Orders*, the approved plan of operations, and any applicable Notice to Lessees.

Snyder Oil Corporation will be fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to their field representative(s) in order to ensure compliance.

The dirt contractor will be provided with a copy of the Surface Use Plan from the approved Application for Permit to Drill.

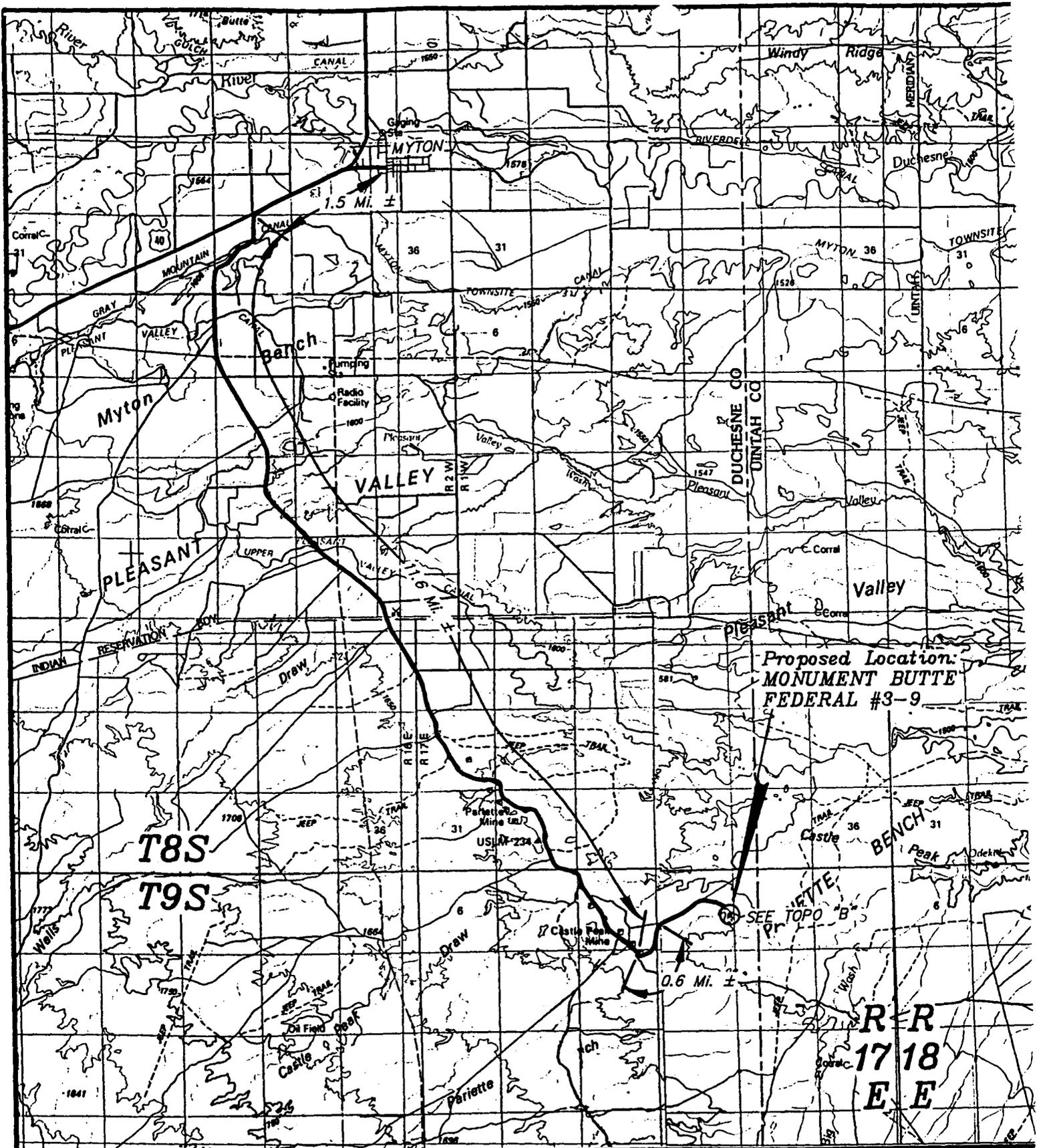
This drilling permit will be valid for a period of one (1) year from the date of approval. An extension period may be granted, if requested, prior to the expiration of the original approval period.

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

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Snyder Oil Corporation, their contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

4/12/95
Date

James M. McKinney, Jr.
James M. McKinney, Jr.



TOPOGRAPHIC
MAP "A"

DATE: 2/21/95 D.COX

SNYDER OIL CORP.

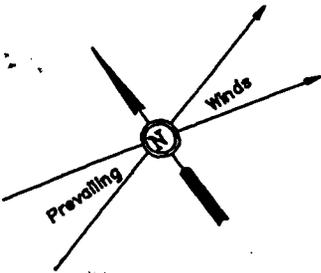
MONUMENT BUTTE FEDERAL #3-9
SECTION 3, T9S, R17E, S.L.B.&M.
1922' FSL 605' FEL

SNYDER OIL CORP.

LOCATION LAYOUT FOR

MONUMENT BUTTE FEDERAL #3-9
SECTION 3, T9S, R17E, S.L.B.&M.

1922' FSL 605' FEL



SCALE: 1" = 50'
DATE: 2-22-95
Drawn By: C.B.T.

FIGURE #1

NOTE:

FLARE PIT IS TO BE LOCATED A MINIMUM OF 100' FROM THE WELL HEAD.

APPROX. TOP OF CUT SLOPE

APPROX. TOE OF FILL SLOPE

El. 92.9'
C-14.9'
(Btm. Pit)

El. 96.0'
C-18.0'
(Btm. Pit)

C-8.3'
El. 96.3'

El. 90.3'
C-2.3'

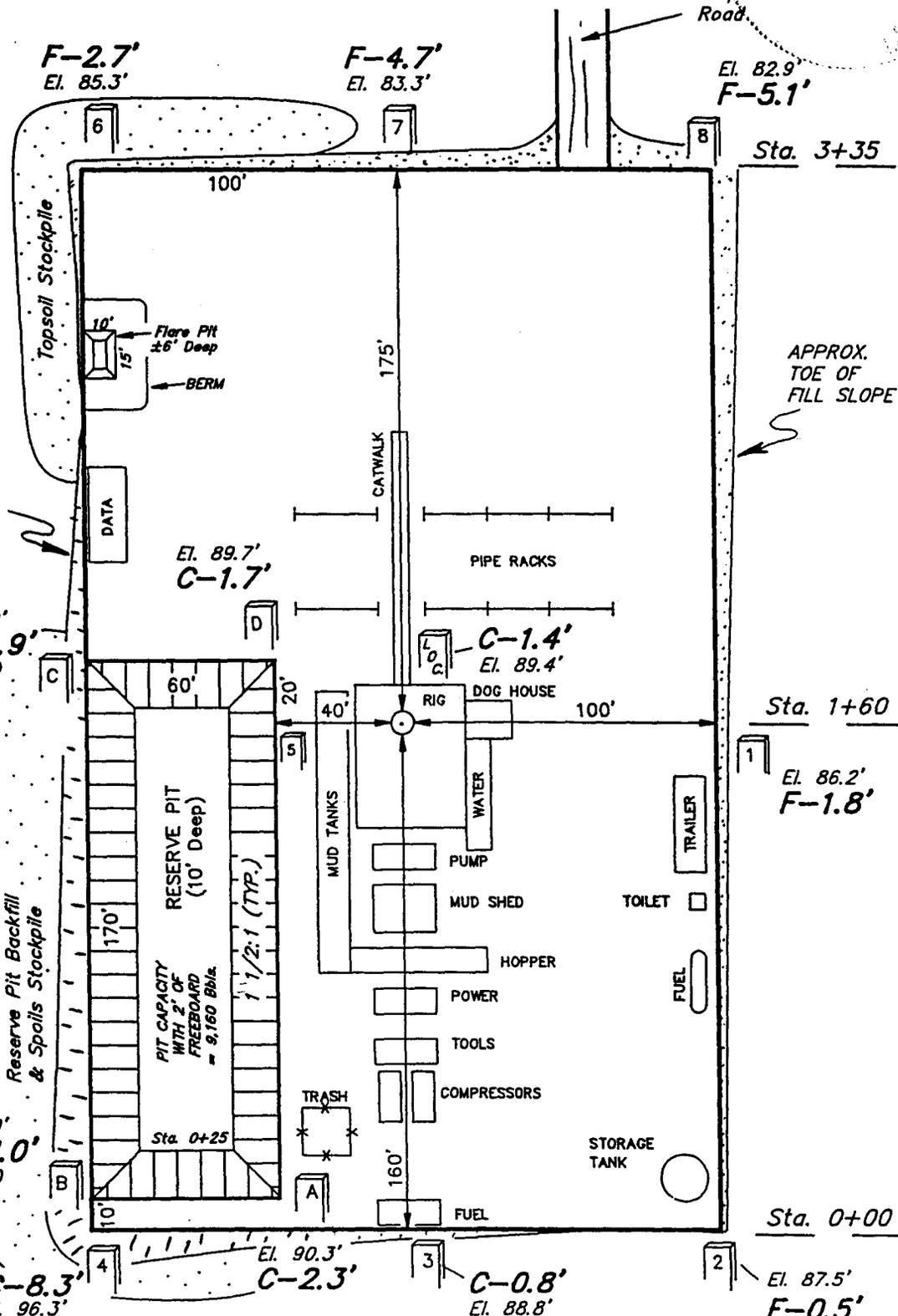
C-0.8'
El. 88.8'

El. 87.5'
F-0.5'

F-2.7'
El. 85.3'

F-4.7'
El. 83.3'

El. 82.9'
F-5.1'



Elev. Ungraded Ground at Location Stake = 5089.4'

Elev. Graded Ground at Location Stake = 5088.0'

SNYDER OIL CORP.

TYPICAL CROSS SECTIONS FOR

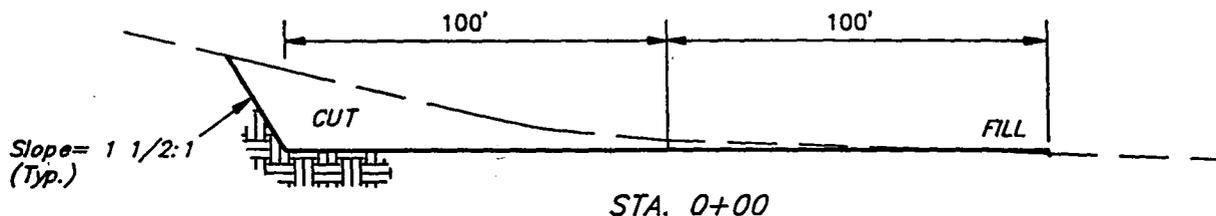
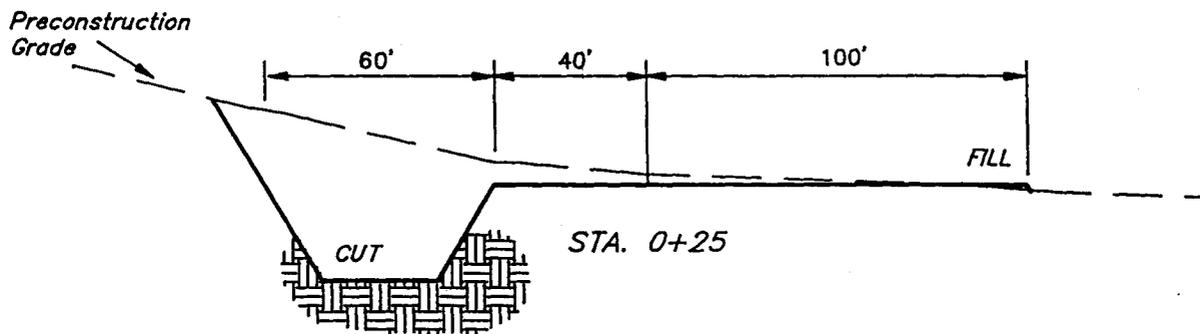
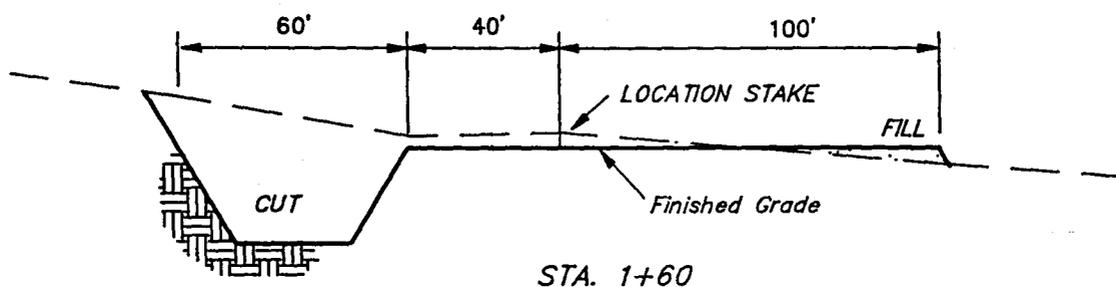
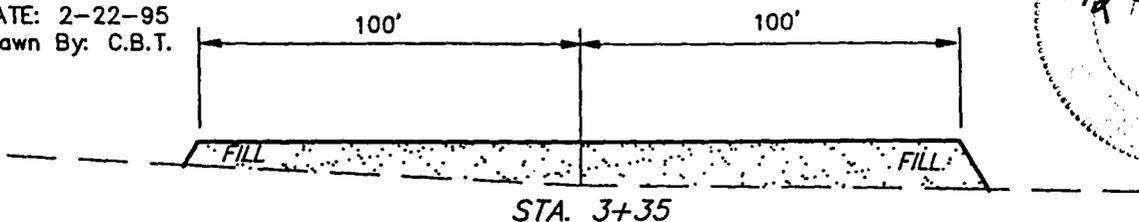
MONUMENT BUTTE FEDERAL #3-9

SECTION 3, T9S, R17E, S.L.B.&M.

1922' FSL 605' FEL

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

DATE: 2-22-95
Drawn By: C.B.T.



NOTE:

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

FIGURE #2

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,240 Cu. Yds.
Remaining Location	= 4,930 Cu. Yds.
TOTAL CUT	= 6,170 CU.YDS.
FILL	= 3,440 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,550 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,550 Cu. Yds.
EXCESS CUT MATERIAL	= 0 Cu. Yds.

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

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/24/95

API NO. ASSIGNED: 43-013-31520

WELL NAME: MONUMENT BUTTE FEDERAL 3-9
 OPERATOR: SNYDER OIL CORP (N1305)

PROPOSED LOCATION:
 NESE 03 - T09S - R17E
 SURFACE: 1922-FSL-0605-FEL
 BOTTOM: 1922-FSL-0605-FEL
 DUCHESNE COUNTY
 MONUMENT BUTTE FIELD (105)

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

LEASE TYPE: FED
 LEASE NUMBER: USA-U-44004

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Federal State Fee
 (Number WY-2272)
- Potash (Y/N)
- Oil shale (Y/N)
- Water permit
 (Number 43-1721)
- RDCC Review (Y/N)
 (Date: _____)

LOCATION AND SITING:

- R649-2-3. Unit: _____
- R649-3-2. General.
- R649-3-3. Exception.
- Drilling Unit.
 Board Cause no: _____
 Date: _____

COMMENTS: _____

STIPULATIONS: _____



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

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

July 5, 1995

Snyder Oil Corporation
1625 Broadway, Suite 2200
Denver, Colorado 80202

Re: Monument Butte Federal 3-9 Well, 1922' FSL, 605' FEL, NE SE, Sec. 3, T. 9 S.,
R. 17 E., Duchesne County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31520.

Sincerely,

A handwritten signature in black ink, appearing to read "R. J. Firth".

R. J. Firth
Associate Director

ldc

Enclosures

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

WAPD



Operator: Snyder Oil Corporation

Well Name & Number: Monument Butte Federal 3-9

API Number: 43-013-31520

Lease: Federal USA-U-44004

Location: NE SE Sec. 3 T. 9 S., R. 17 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)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

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.

3/24/96



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

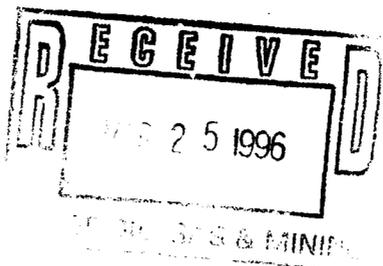
Vernal District Office
170 South 500 East
Vernal, Utah 84078-2799

Phone: (801) 781-4400
Fax: (801) 781-4410

IN REPLY REFER TO:

3160
(UT08438)

March 21, 1996



OG&M
LA DATE

Snyder Oil Corporation
1625 Broadway, Suite 2200
Denver, CO 80202

Re: Well No. Monument Butte Federal 3-8
Well No. Monument Butte Federal 3-9 43-013-31520
Well No. Monument Butte Federal 3-10
Sec. 3, T9S, R17E
Lease Nos. U-44004 and U-61252
Duchesne County, Utah

(not approved by OG&M)

Dear Mr. Brooke:

The Applications for Permit to Drill (APD) the above referenced wells are being returned as per your letter of March 14, 1996. If you intend to drill at these locations at a future date, new Applications for Permit to Drill must be submitted.

If you have any questions concerning APD processing, please contact me at (801) 781-4492.

Sincerely,

Margie Herrmann
Legal Instruments Examiner

cc: State Div. OG&M
Snyder Oil Corp., Vernal Office