United States Department of the Interior

BUREAU OF LAND MANAGEMENT
RICHFIELD DISTRICT OFFICE
150 EAST 900 NORTH
RICHFIELD, UTAH 84701

IN REPLY
REFER TO:

3100
(U-052)

January 18, 1984

RECEIVED
JAN 20 1984
DIVISION OF
OIL, GAS & MINING

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

Gentlemen:

Enclosed are the Conditions of Approval and the lease plat for Louisiana Land and Exploration's 11-20 well. The Application for Permit to Drill was approved by this office on January 18, 1984.

Sincerely yours,

Donald L. Pendleton
District Manager

Enclosures:

Conditions of Approval
Lease Plat

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.: U-49089

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Biddlecome Ranch-Fed.

9. WELL NO.: 11-20

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 20-28S-14E

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

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

2. NAME OF OPERATOR: The Louisiana Land & Exploration Company

3. ADDRESS OF OPERATOR: Ste 2100 1675 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 990' fnl 990' fwl NW NW
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 35 miles E of Hanksville

12. COUNTY OR PARISH: Wayne

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 990'

16. NO. OF ACRES IN LEASE:

17. NO. OF ACRES ASSIGNED TO THIS WELL: 80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: N/A

19. PROPOSED DEPTH: 5125'

20. ROTARY OR CABLE TOOLS: Rotary

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

22. APPROX. DATE WORK WILL START*: November 1, 1983

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DIVISION OF
OIL, GAS & MINING

(303) 623-5759

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 Warren Gross TITLE Operations Manager DATE Sept 29, 1983

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Donald P. Ramstetter TITLE DISTRICT MANAGER DATE 1/18/84

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

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

STATE OF UTAH O/G

4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Manager's office on a frequency and form or method as may be acceptable to the District Manager. Drilling reports will be filed weekly with the District Manager, Richfield, Utah.
In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P. O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Manager. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alteration of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and complied during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.

6. Significant surface values (are) (~~xxxxxxx~~) involved at this location. Accordingly, you (must) (~~xxxxxxx~~) notify at least ~~(24)~~ (48) hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

Your contact with this office is: Larry Sip or Pat Stong
Office Phone: 801-542-3461 Home Phone: 801-542-3458
City: Hanksville State: Utah

District Manager's Office Address and contacts are:

Address: 150 East 900 North Richfield, Utah 84701 (801-896-8221
District Manager: Don Pendleton Home Phone: 801-896-8081

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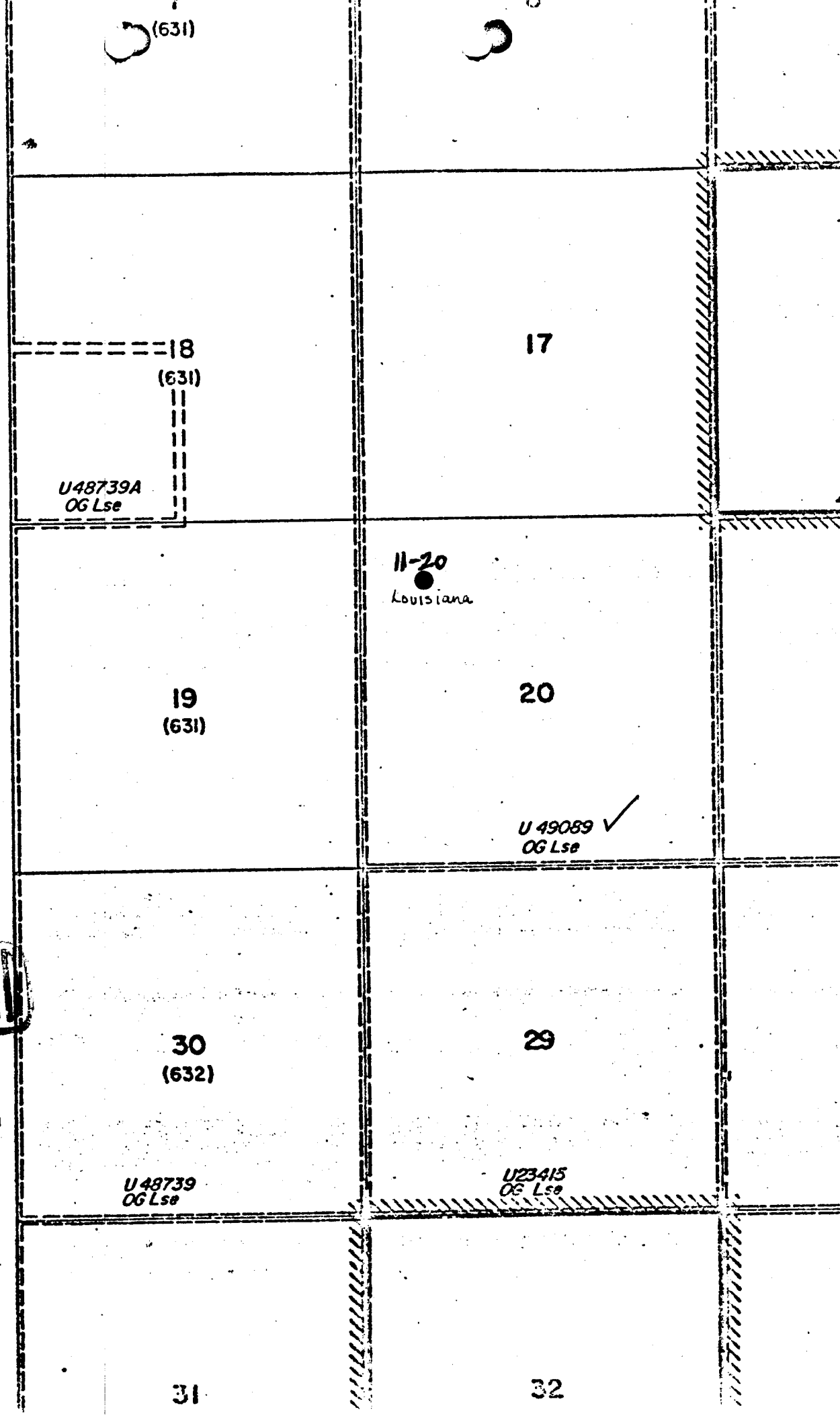
OIL, GAS & MINING



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CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Louisiana Land and Exploration Company Well No. 11-20

Location NW¼NW¼ Section 20, T.28S., R.14W. Lease No. U-49089

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. 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 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.

2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected. (See special stipulations)

3. 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 this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

   In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a follow-up report on form 9-331 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.

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7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitle, "Surface Operating Standards for Oil and Gas Exploration and Development". This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.

10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.

11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.

12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communication, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    a. Operator name, address and telephone number.

    b. Well name and number.

    c. Well location (1/4, 1/4, Section, Township, Range and Prime Meridian).

    d. Date was placed in a producing status.

    e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead 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.

g. If appropriate, the unit agreement name, number and participating area name.

h. If appropriate, the communitization agreement number.

13. _____

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

See attached special stipulations.

RECEIVED
JAN 26 1984
DIVISION OF
OIL, GAS & MINING

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JAN 30 1984
DIVISION OF
OIL, GAS & MINING

OIL AND GAS STIPULATIONS

CONSTRUCTION

1. The operator or his contractor will contact the Area Manager or Geologist at the Henry Mountain Resource Area Office in Hanksville, Utah, phone 801-542-3461, 48 hours prior to beginning any work on public land.

2. The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.

3. Use of water from sources such as wells, springs, streams, or stock ponds for activities associated with this well will be approved, prior to use, by the BLM authorized officer, and by the agency or individual holding the water right.

4. If cultural material is exposed during construction, work in that spot will stop immediately and the BLM Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.

5. Improvement to the existing road will be necessary. The upgrading will conform to the Class III road standards. The county road department will be contacted before using any known county road.

6. New road construction will be in conformance to the Class III road standards. All roads will be constructed with drainage dips (water bars) as detailed in the road standards.

7. Topsoil will be saved along the route. The top 4 inches of soil material will be removed from the routes surface and stock piled separate from the route in such a manner that it may be replaced to the same depth back on the route should the route need to be reclaimed. Stockpile areas will be subject to the approval of the authorized officer.

8. Surfacing material will not be placed on the access road or location without prior BLM approval.

9. Drainages shall not be plugged by roadbed. Drainage crossings shall be constructed so as not to cause siltation or accumulation of debris. Where siltation or accumulation of debris occurs, the drainage crossing shall be reworked or relocated.

10. Surface disturbance and vehicular travel will be limited to the approved access route and approved location. Any additional area needed will require the BLM authorized officer's approval in advance.

11. The top 6 inches of soil material will be removed from the location and stockpiled on the NW and SE side of the location. This stockpile should contain:

$$\frac{0.5\ \text{Ft}}{\text{Depth of Topsoil}} \times \frac{400\ \text{Ft}}{\text{Width of Location Ft}} \times \frac{400}{\text{Length of Location Ft}} \div 27\,\text{ft}^3/\text{yd}^3 = 2962.96\text{y}$$

12. The pit will not be lined with clay, unless determined otherwise, to prevent seepage. The reserve pit banks will be 2.0 ft above pad and constructed in 8" lifts, compacted, and be sufficiently wide to allow passage of equipment. Key Way, if necessary, will be approved by the authorized officer.

13. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying. The fence will be four strands of barbed wire.

14. A trash cage will be used on site to contain all trash. Barrels, cable, wood and all other trash will be hauled to a local sanitary landfill to be disposed of. Open burning of trash or refuse is illegal under Section 2.4 Utah Air Conservation Regulations. Operator will be responsible for all trash and roadside litter generated by their operaion along their access route; from U-24 to location.

15. A sewage or septic system will be installed to handle waste created by personnel living at the location. This system will have to meet the specifications of the local Health District and have approval of the local sanitarian.

REHABILITATION

16. The operator or his contractor will contact the BLM Henry Mountain Resource Area Office in Hanksville, Utah, phone 801-542-3461, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.

17. The pit will be drained into a network of trenches 2 to 3 feet wide and a minimum of 4 feet deep and covered with earth (not the stockpiled topsiol). All trash contained in the pit (barrels, metal, etc.) must be removed from public lands. Recontouring of location and pit can be started immediately.

18. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.

19. The stockpiled topsoil will be evenly distributed over the disturbed areas.

20. All disturbed areas will be scarified with the contour to a depth of 8-12 inches. Do not smooth pads out, leave a roughened surface.

21. Seed will be (broadcast/drilled) during the period of 10/1 to 12/30, as specified by the BLM authorized officer with the attached seed prescription. Seeding will be repeated until vegetation is successfully established. Seeding will be done in presence of the authorized officer.

22. The following seed mix will be sown on the rehabilitated access route and location.

3 lbs/acre	Indian ricegrass
3 lbs/acre	Green ephedra
3 lbs/acre	Curlygrass

ADDITIONAL STIPULATIONS

1. All water bering zones encountered in the Navajo sandstone will be adequatly cased off.

2. Under no circumstances will vehicular traffic be allowed in the Dirty Devil Wilderness Study Area.

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JAN 30 1984
DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

February 16, 1984

The Louisiana Land & Exploration Co.
1675 Broadway, Suite 2100
Denver, CO 80202

Re: Well No. Biddlecome Ranch-Fed. 11-20
NWNW Sec. 20, T. 28S, R. 14E
990' FNL, 990' FWL
Wayne County, Utah

Gentlemen:

Our records indicate you have filed federal application for permit to drill Well No. Biddlecom Ranch-Fed. 11-20, but have not yet filed application with the State of Utah. Applications must receive State approval in addition to federal approval in order to commence drilling.

Please provide the necessary application for permit to drill, or otherwise advise on the status of the permit. A copy of the federal application with attachments and cover letter is acceptable.

Very truly yours,

R. J. Firth
Chief Petroleum Engineer

RJF/gl

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.: U-49089

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Robbers Roost

8. FARM OR LEASE NAME: Biddlecome Ranch-Fed.

9. WELL NO.: 11-20

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 20-28S-14E

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

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

2. NAME OF OPERATOR: The Louisiana Land & Exploration Company

3. ADDRESS OF OPERATOR: Ste 2100 1675 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 990' fnl 990' fwl NW NW
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 35 miles E of Hanksville

12. COUNTY OR PARISH: Wayne

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 990'

16. NO. OF ACRES IN LEASE:

17. NO. OF ACRES ASSIGNED TO THIS WELL: 80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: N/A

19. PROPOSED DEPTH: 5125' Atah

20. ROTARY OR CABLE TOOLS: Rotary

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

22. APPROX. DATE WORK WILL START*: November 1, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8" New	36#	800'	Circ to surf
8 3/4"	5 1/2" New	14,17#	5125"	200 sx

See attached 10-Point Plan

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FEB 27 1984
DIVISION OF
OIL, GAS & MINING

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

24.

SIGNED Warren Cross TITLE Operations Manager DATE Sept 29, 1983

(This space for Federal or State office use)

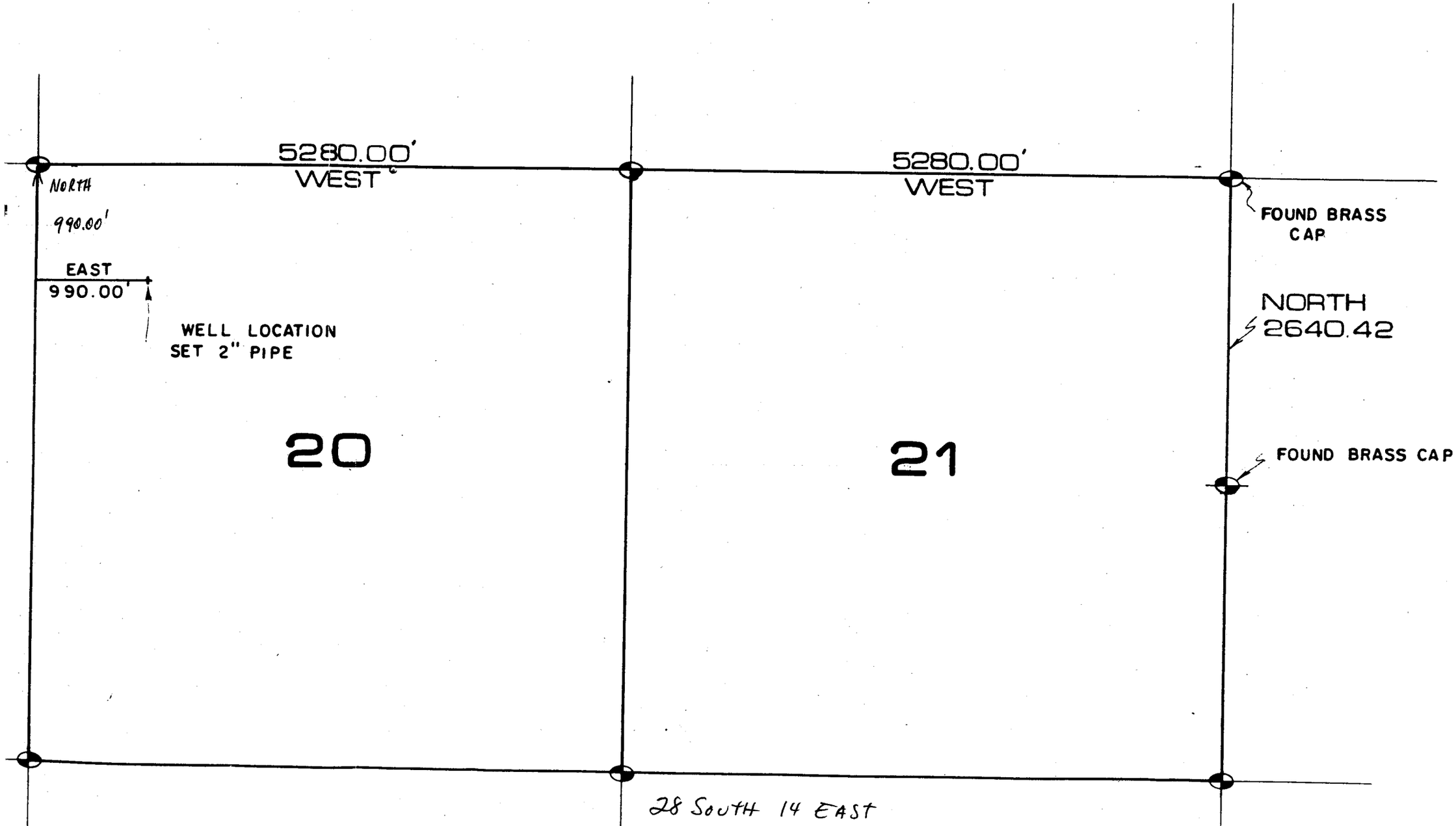
PERMIT NO. APPROVAL DATE

APPROVED BY DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 2/27/84
BY:
FOR RECORD PURPOSES ONLY

*See Instructions On Reverse Side


5280.00'
WEST
5280.00'
WEST
NORTH
990.00'
EAST
990.00'
WELL LOCATION
SET 2" PIPE
FOUND BRASS
CAP
NORTH
2640.42
FOUND BRASS CAP
20
21
28 SOUTH 14 EAST

The Louisiana Land & Exploration
#1 Biddlecome Ranch-Federal
NW NW Sec. 20-28S-14E

10 Point Plan

1. The surface formation is

2.&
3. Estimated tops and possible water, oil and gas.

Wingate	913'		Ismay	4761'	o,g,w
Chinle	1258'		Desert Creek	4894'	o,g,w
White Rim	2093'		Akah	5102'	
Elephant Canyon	3216'		Proposed		
Upper Hermosa	3792'	o,g,w	TD	5125'	

4. Casing Program:

Conductor:	18" @ 30' Cement to surface					
Surface:	9 5/8"	0 - 800'	36#	STC	K-55	New Circ to surf
Production:	5 1/2"	0 -4800'	14#	STC	K-55	New
		4800-5125'	17#	LTC	N-80	New 200sx

5. Pressure control equipment: See attached Exhibit B.

   The BOP will be hydraulically tested to half of rated WP after nippling up and after any use under pressure. Pipe rams will be operationally checked each 24 hour period, as blind rams and annular preventer each time pipe is pulled out of hole. Such checks of BOP will be noted on daily drilling report.

6. Mud Program:

   Drill and set surface casing with fresh water native muds and gel sweeps as needed. Drill out of surface casing with fresh water and gel sweeps as need to 1900'. Drill from 1900' to total depth with a salt saturated system. The following mud system will be maintained:
   Weight: 8.3-10.5 ppg; viscosity 28-38; WL 12-15 cc's; CL 195.000

   Sufficient materials will be soted on location to maintain mud properties and to control any minor lost circulation and/or possible blowout problems.

7. Auxiliary equipment is described on Exhibit B.

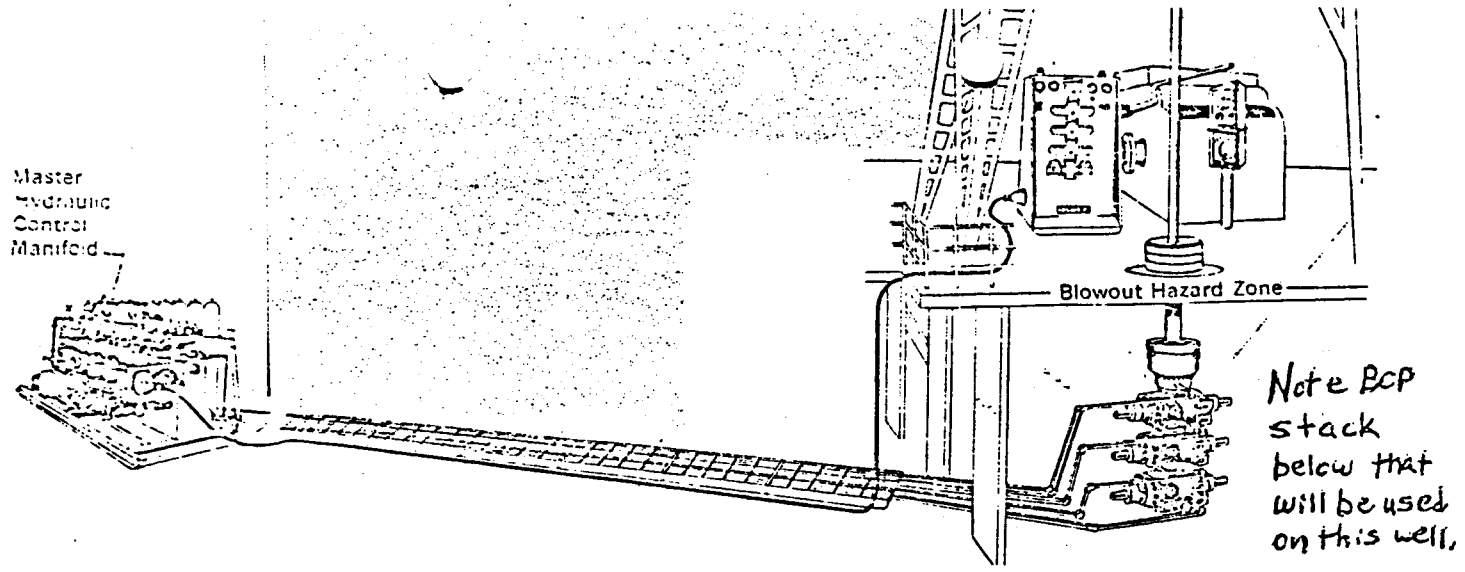
8. Testing program will include testing the potential productive zones recommended by the well site geologist, specifically Ismay, Desert Creek, and Upper Hermosa. Logging will include:

GR/DIL 2" & 5"	Surface casing to TD
GR/BHC/Sonic 2"&5"	" " " "
GR/FDC/CNL/Caliper 5"	" " " "

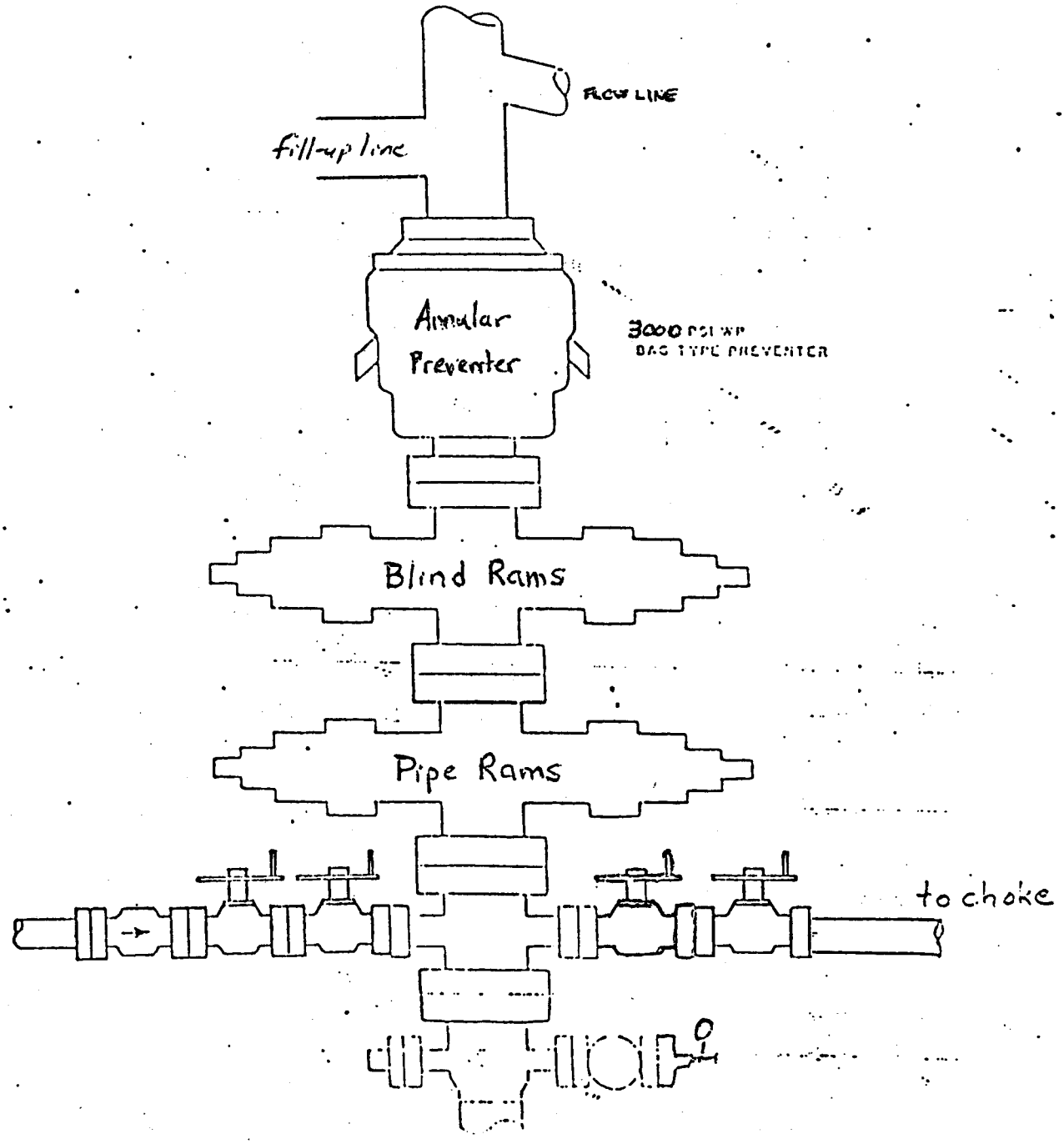
   No coring planned. If stimulation is required other than acidizing, a sundry notice will be submitted prior to operation.

9. Potential hazards: There are no high pressures or high temperature zones, nor H2S expected at this well.

10. Estimated starting date is November 1, 1983, with the duration 30 days.



3000 PSI WORKING PRESSURE PREVENTER STACK
REGULAR SERVICE



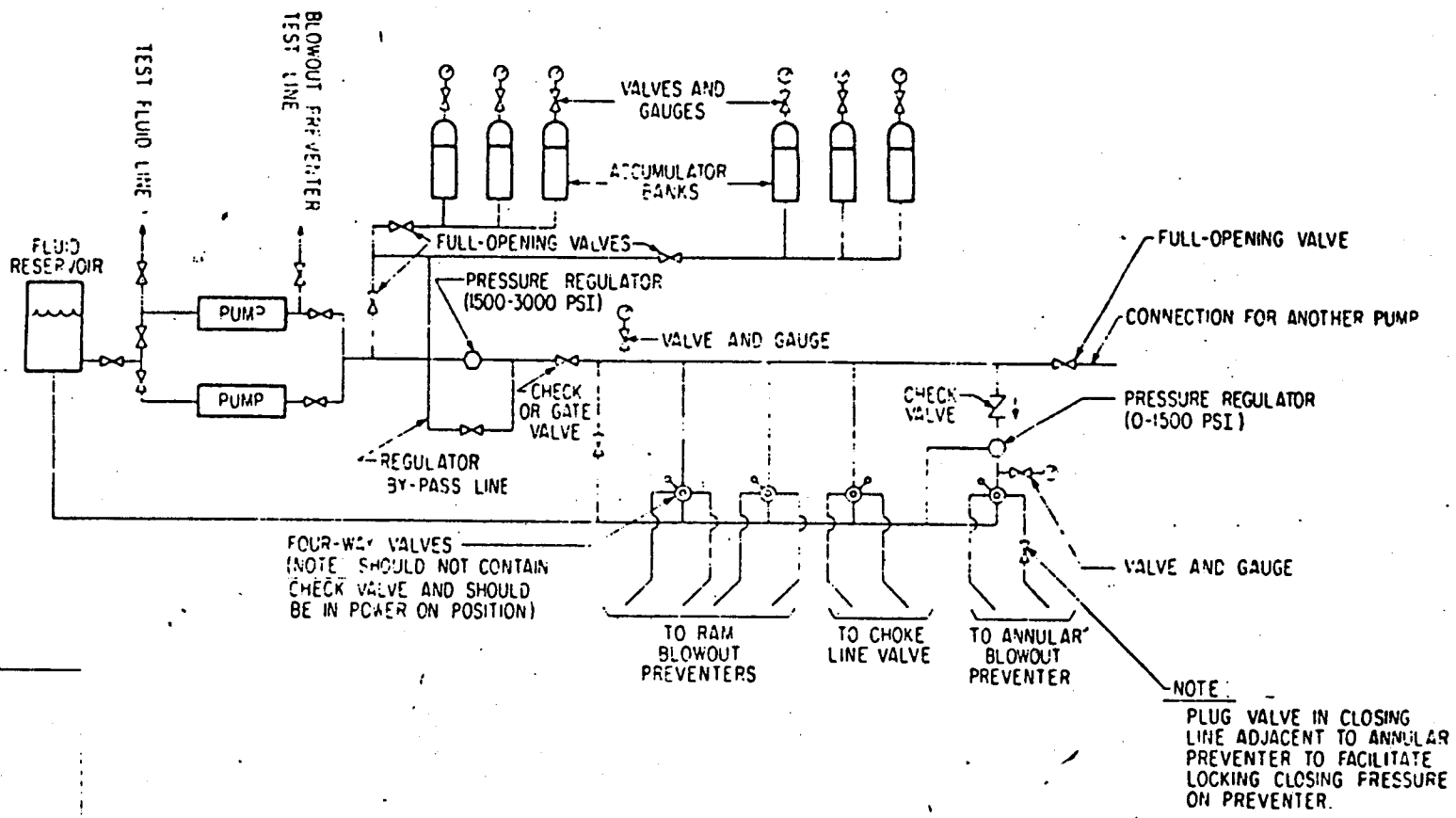
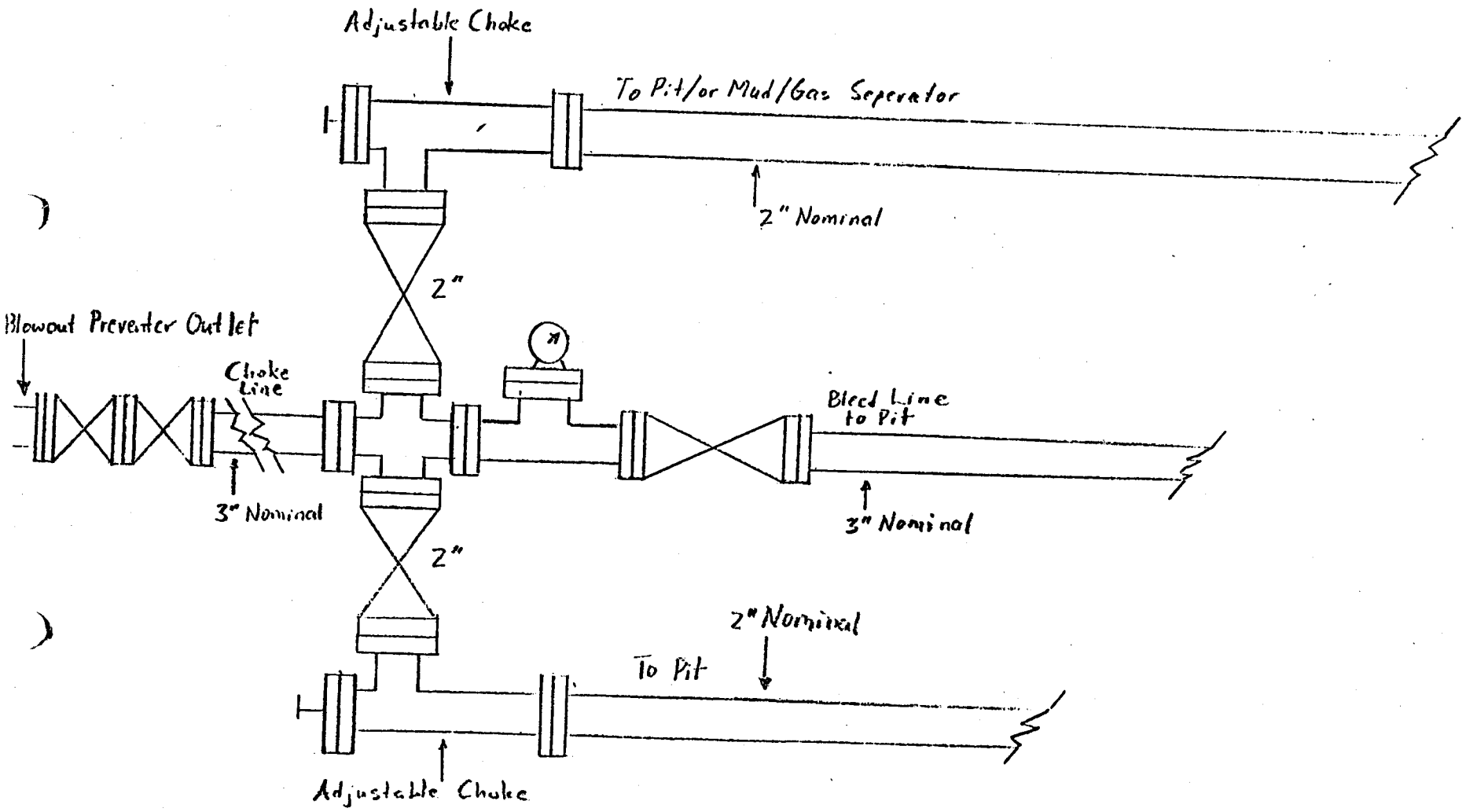


FIG. 5.A.1

TYPICAL BLOWOUT PREVENTER CLOSING UNIT ARRANGEMENT



Typical Choke Manifold for 3000 psi WP

HATCHER PETRO-LAND, INC.
"Let Marv Handle Your Permit Requirements"
P.O. Box 38 • Mills, Wyoming 82644

Marvin L. Hatcher, Boss
Bus. Phone 307 - 237-8201
Home Phone 307 - 234-6718

September 26, 1983

The Louisiana Land & Exploration
#11-20 Biddlecome Ranch-Federal
NW NW Section 20-28S-14E
Wayne County, Utah
Lease No. U-49089

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

1. EXISTING ROADS

A. The proposed well site and alternates have been staked.

B. To find the above captioned well site, go North of Hanksville 19 miles on Highway . Turn right (East) at BLM "Roost Flats" sign and proceed 11 miles; turn right at fork in road; proceed 13.2 miles and turn right at Hans Flat sign; proceed 7 miles to Ekker Ranch sign; then turn right at fork and proceed about 300 feet; turn right on existing road, proceed 5 miles (passing dry hole marker in SW SW Section 14); continue one mile then turn right on trail and proceed .5 mile turn right at fork in trail; cross large drainage; then follow trail 2 miles to location.

C. The access road is color-coded and labeled on Exhibit C.

D. There are no existing roads within a three-mile radius of the location.

E. This is a wildcat.

F. There are no plans to improve the existing county road.

2. PLANNED ACCESS ROAD

(1) The proposed trail will be constructed as a class III road.

(2) The maximum grade is about 7 percent.

(3)-(5) There will be no turnouts or ditching. No culverts will be required on this access. No major cuts or fills will be necessary.

(6) There are no surfacing materials planned for the drilling program. Road materials will consist of that which is disturbed to grade the trail.

(7) There will be no cattleguards, nor gates.

(8) The proposed trail has been flagged.

3. LOCATION OF EXISTING WELLS

(1) There are no water wells in the area.

(2) The closest abandoned well is in SW SW Section 14, 3.2 miles East.

(3) There are no temporarily abandoned wells.

(4) There are no disposal wells.

(5) There are no rigs active in the area.

(6) There are no producing wells in the area.

(7) There are no shut in wells.

(8) There are no injection wells.

(9) There are no monitoring and observation wells.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. (1)-(2) There are no tank batteries or production facilities owned by this operator in the area.

(3)-(6) There are no oil, gas, injection or disposal lines in the area.

B. (1) The tank battery will be installed on this site.

(2) Dimensions for production facilitites are on Exhibit G.

(3) Production facilities will be on this site. Materials for the foundation will be from the location and transported in from the nearest source in Hanksville.

(4) If the well is a producer, the production pit and reserve pit will be fenced on four sides in an effort to protect livestock and wildlife from possible danger. Flagging will be placed across the pits.

C. All of the disturbed area not needed for operations after construction of production facilities are completed, will be rehabilitated, such as reshaping, grading and seeding.

5. LOCATION AND TYPE OF WATER SUPPLY

A. Water source will be from the Dirty Devil River near Hanksville.

B. Water will be hauled from source to location.

C. No water well will be drilled for this operation.

6. SOURCE OF CONSTRUCTION MATERIALS

A. Any materials needed in addition to what can be used from the location will be hauled from the nearest commercial source.

B. Construction materials will not be taken from Indian or Federal lands.

C. Soil from the drilling location and access trail will be used. Any additional materials needed will be hauled from authorized sources in Hanksville.

D. N/A

7. METHODS OF HANDLING WASTE MATERIALS

(1)-(2) All cuttings and drilling fluids deposited during the drilling operation will be put in the reserve pit.

(3) All produced fluids will be put in tanks on location.

(4) Sewage will be contained in a portable container near the back side of location. A suitable chemical will be used to decompose materials and when the operations are complete, the container will be transported from the location.

(5) Garbage and other waste materials will be put in the burn pit which will be enclosed on all sides and back half of top with small mesh wire. No materials will be burned in the pit. Small materials will be in burn pit for burial with a minimum of 4 ft. of soil. Reserve pit will be fenced on three non-operating sides during drilling.

(6) Any scattered trash and litter found after the rig has moved off location, will be collected and put in the burn pit. All potentially hazardous areas, specifically the reserve pit, will be fenced and will remain enclosed until the entire area can be rehabilitated.

8. ANCILLARY FACILITIES

There are no plans for an airstrip but a small camp will be on location.

9. WELL SITE LAYOUT

The attached Exhibits show various aspects of the well site.

(1) Cuts and fills are on Exhibit F.

(2)-(3) Rig layout data on Exhibit E.

(4) The reserve pit will not be lined.

10. PLANS FOR RESTORATION OF SURFACE

(1) The restoration program will begin when the drilling operations have been completed. Any area which needs rehabilitated, will be returned to the original topography if possible. The soil materials will be returned to original area, if possible. All debris from the operation will be placed in the burn pit and covered with a minimum of 4 ft. of soil.

(2) The rehabilitation and revegetation will be accomplished as soon as possible after operations cease and the weather permits...which will be after the pits are dry. Seed mixture will be Indian Rice grass, Green Ephedra and Curly grass as recommended by the BLM. A marker will be installed if the well is dry.

(3) The reserve pit will be fenced on three sides prior to drilling and after the rig moves off the location, the fourth side will be fenced. The fence will remain around the hazardous area until the area is dry and ready for backfill.

(4) Flagging will be placed across the top of the reserve pit if there is any oil on the fluids. If the well is a producer, flagging will be placed across the production pit.

(5) Rehabilitation operations will begin immediately after the drilling or completion rig moves off location and terminate when all the area has been seeded, which is expected to be in the Fall 1984.

11. OTHER INFORMATION

(1) The proposed location is in a gentle rolling to flat area, with major canyons in the area. The surface formation is CARMEL. Soil is of sandy substance. Various desert wildlife are in the area.

(2) The area is used for grazing livestock and wildlife. The landowner is U.S.A.

(3) There is no close water. There are no close occupied dwellings. The archeological report has been submitted.

12. LESSEE OR OPERATOR'S FIELD REPRESENTATIVE

Hatcher Petro-Land Inc
P.O. Box 40
Mills, Wyoming 82644
Phone: 307-237-8201

Warren Goss
The Louisiana Land & Exploration
Suite 2100, 1675 Broadway
Denver, Colorado 80202
Phone: 303-623-5759

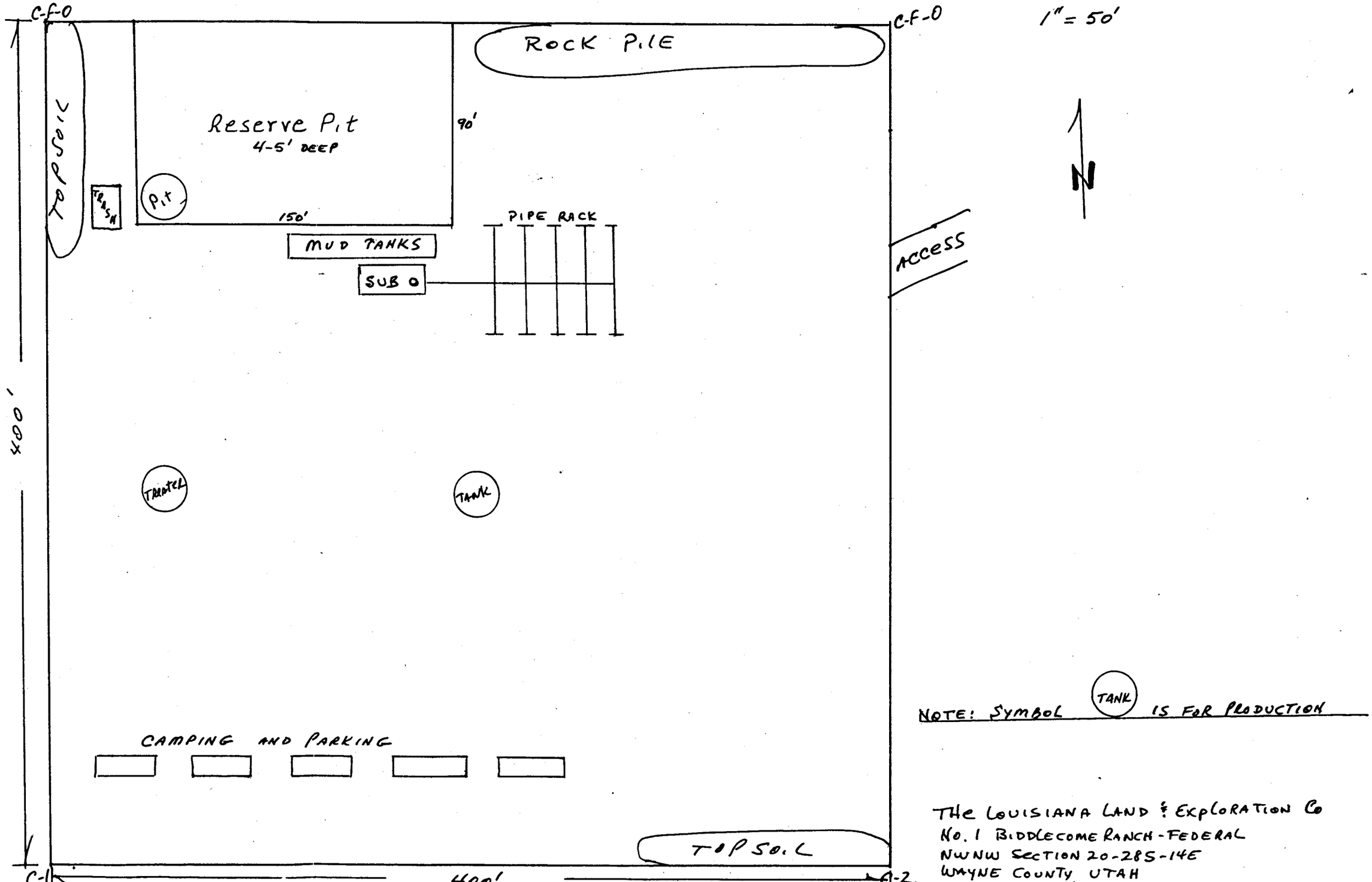
13 CERTIFICATION:

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 presently exist, that the statements made in this plan are, to the best of my knowledge; true and correct; and, that the work associated with the operations proposed herein will be performed by The Louisiana Land & Exploration Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

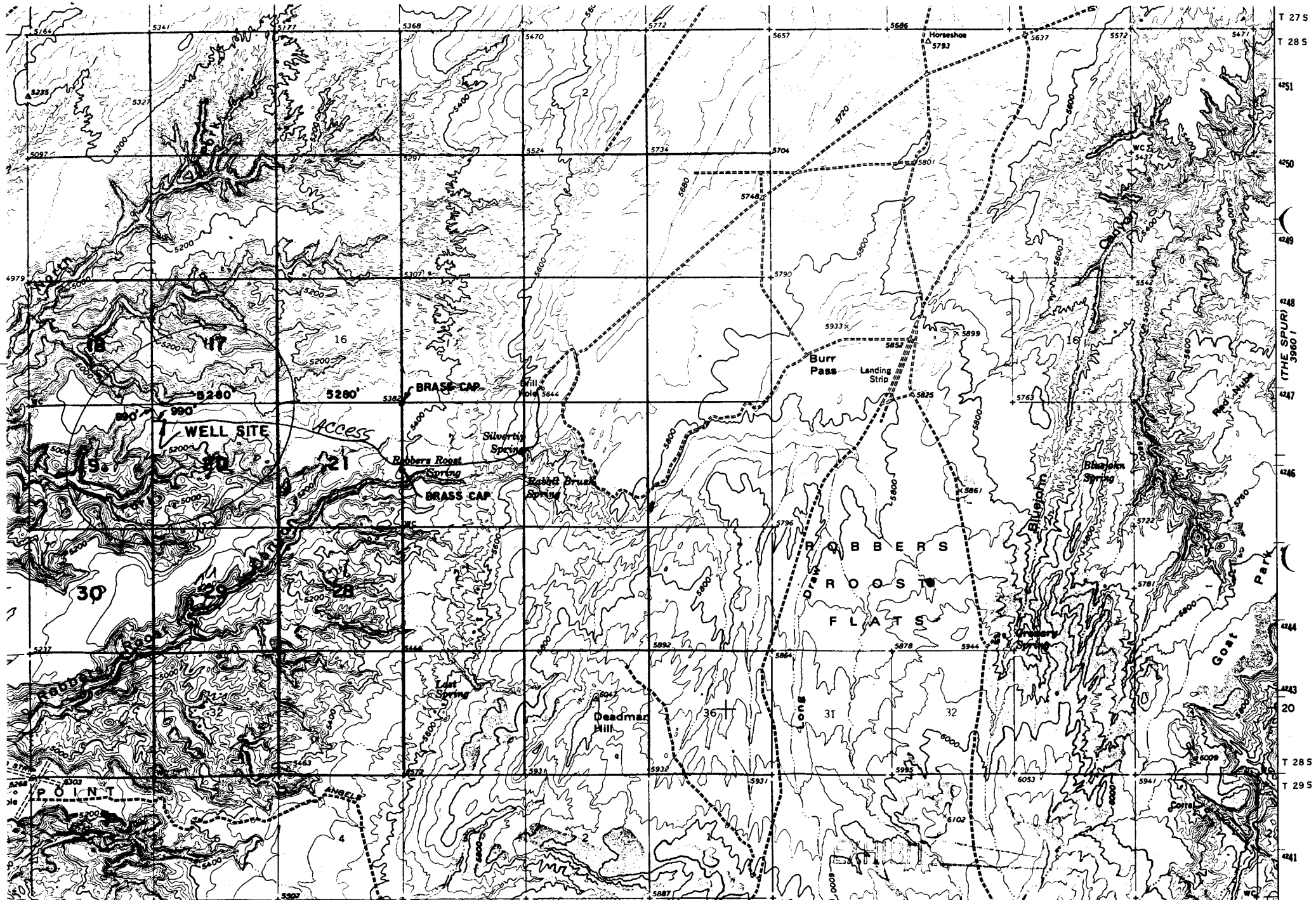
DATE: September 26, 1983

Marvin L. Hatcher

Hatcher Petro-Land Inc, Agent



THE LOUISIANA LAND & EXPLORATION CO
NO. 1 BIDDLECOME RANCH-FEDERAL
NWNW SECTION 20-28S-14E
WAYNE COUNTY UTAH


T 27 S
T 28 S
T 28 S
T 29 S
(THE SPUR)
3960 I
Horseshoe
5793
Burr
Pass
Landing
Strip
BRASS CAP
Will
Hole
5644
WELL SITE
Access
5280'
990'
Silvertip
Spring
Robbers Roost
Spring
Rabbit Brush
Spring
BRASS CAP
ROBBERS
ROOST
FLATS
Long
Draw
Bluejohn
Spring
Bluejohn
Canyon
Red Canyon
Goat
Park
Vinnery
Spring
Last
Spring
Deadman
Hill
POINT
ANGELS
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OPERATOR Louisiana Land & Exploration DATE 2-27-84

WELL NAME Biddlecome Ranch-Federal 11-20

SEC NW NW 20 T 28 S R 14 E COUNTY Wayne

43-055-30034	Fed
API NUMBER	TYPE OF LEASE

POSTING CHECK OFF:

[ ] INDEX	[ ] MAP	[ ] HL
[ ] NID	[ ]	[ ] PI

PROCESSING COMMENTS: P&A instructions given to Mr Ramsey on Saturday, 2/18/84. TD. 5065. and plugged prior to well was spudded ~~and~~ approval from the State of Utah.

CHIEF PETROLEUM ENGINEER REVIEW: 2/27/83 ✓ Robbers Roost unit approved ✓ 1/19/84

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, reenacted Chapter 6 of Title 40, Utah Code Annotated 1953, effective May 10, 1983, subsequent to the actual drilling and abandonment of the well. Full compliance with the applicable General Rules and Regulations and Rules of Practice and Procedure of the State of Utah shall apply to these drilling operations.

The API number assigned to this well is _____.

February 27, 1984

The Louisiana Land & Exploration Company
1675 Broadway Suite 2100
Denver Colorado 80202

Re: Well NO. Biddlecome Ranch Fed. 11-20
NWNW Sec. 20, T. 28S, R. 14E
990' FNL, 990' FWL
Wayne County, Utah

Gentlemen:

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-88, reenacted Chaper 6 of Title 40, Utah Code Annotated 1953; effective May 10, 1983, subsequent to the actual drilling and abandonment of the well. Full compliance with the applicable General Rules and Regulations and Rules of Practice and Procedure of the State of Utah shall apply to these drilling operations.

The API Number assinged to this well is 43-055-30034.

Sincerely,

R.J. Firth
Chief Petroleum Engineer

RJF/gl
Enclosures

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well ☐ gas well ☐ other Dry
2. NAME OF OPERATOR
Louisiana Land & Exploration Company
3. ADDRESS OF OPERATOR
1675 Broadway, Ste. 2100, Denver, CO 80202
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 990' FNL, 990' FWL, NW/NW
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

5. LEASE U 49089
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Biddlecome Ranch-Federal
9. WELL NO.
11-20
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
20-28S-14E
12. COUNTY OR PARISH: Wayne
13. STATE: Utah
14. API NO.
43-055-30034
15. ELEVATIONS (SHOW DF, KDB, AND WD)
GL 5264.64' RKB 5277.64'

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☒ ✓
(other)		

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

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

Well spudded on January 28, 1984 and drilled to TD of 5164'. Well determined to be uneconomical. Received verbal approval from State of Utah, BLM, Salt Lake City from Mr. Bill Martins on February 21, 1984 to plug same. Set plugs as follows:

Plug 1	4964-5164'	73 sx H
Plug 2	3200-3000'	73 sx H
Plug 3	1338-1138'	73 sx H
Plug 4	Surface	

Rig released on February 23, 1984.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 4/1/84
BY: [signature]

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED Don Wood TITLE Sr. Petroleum Eng. DATE March 6, 1984
Don Wood

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well ☐ gas well ☐ other Dry
2. NAME OF OPERATOR
Louisiana Land & Exploration Company
3. ADDRESS OF OPERATOR
1675 Broadway, Ste. 2100, Denver, CO 80202
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 990' FNL, 990' FWL NW/NW
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

5. LEASE U-49089
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Biddlecome Ranch-Federal
9. WELL NO.
11-20
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
20-28S-14E
12. COUNTY OR PARISH: Wayne
13. STATE: Utah
14. API NO.
43-055-30034
15. ELEVATIONS (SHOW DF, KDB, AND WD)
GL 5264.64', RKB 5277.64'

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☒ ✓	☐
(other)		

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

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

Well spudded on January 28, 1984 and drilled to TD of 5164'. Well determined to be uneconomical. Propose to set plugs as follows:

Plug 1	4964-5164'	73 sx H
Plug 2	3200-3000'	73 sx H
Plug 3	1338-1138	73 sx H
Plug 4	Surface	

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 4/1/84
BY: [signature]

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED Don Wood TITLE Sr. Pet. Engineer DATE March 6, 1984

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

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.

5
4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

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

2. NAME OF OPERATOR: Louisiana Land and Exploration Company

3. ADDRESS OF OPERATOR: 1675 Broadway, Ste. 2100, Denver, CO 80202

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 990' FNL, 990' FWL, NW/NW
At top prod. interval reported below: Same
At total depth: Same

5. LEASE DESIGNATION AND SERIAL NO.: U-49089
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Biddlecome Ranch-Federal
9. WELL NO.: 11-20
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 20-28S-14E

14. PERMIT NO.: 43-055-30034 DATE ISSUED: 2-27-84
12. COUNTY OR PARISH: Wayne
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
1/28/84	2/21/84	P&A	GL 5264.64', RKB 5277.64'	

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
5164'		N/A	→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: P&A'd

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL-SFL ALFD Cy Sample

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
9-5/8"		1238'	12-1/4"	350 sx HLC + 175 sx H.	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*): P&A

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

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

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

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED Don Wood ~~Don Wood~~ TITLE Sr. Petroleum Engineer DATE 3/6/84

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

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.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Navajo	Surface	
Wingate	915'	
White Rim	2050'	
Cedar Mesa	2744'	
Upper Hermosa	3280'	
Ismay	4836'	
Desert Creek	5018'	
Akah	5125'	
Drillers TD	5164'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

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.)

5. LEASE DESIGNATION AND SERIAL NO.: U-49089

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: The Louisiana Land and Exploration Company

8. FARM OR LEASE NAME: Biddlecome Ranch-Federal

3. ADDRESS OF OPERATOR: 1675 Broadway, Ste. 2100, Denver, CO 80202

9. WELL NO.: 11-20

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 990' FNL 990' FWL, NW/NW

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 20-28S-14E

14. PERMIT NO.: 43-055-30034

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GL 5264.64' RKB 5277.64'

12. COUNTY OR PARISH: Wayne

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*	X
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.)*

Well spudded on January 28, 1984 and drilled to TD of 5164'. Well determined to be uneconomical. Received verbal from Mr. Bill Martins, State of Utah BLM, Salt Lake City on February 21, 1984 to plug same. Set plugs as follows:

Plug 1	4964-5164'	73 sx "H"
Plug 2	3200-3000'	73 sx "H"
Plug 3	1338-1138'	73 sx "H"
Plug 4	Surface	

Rig released on February 23, 1984

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 3/14/84
BY: [illegible]

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

SIGNED Don Wood TITLE Sr. Petroleum Engineer DATE March 7, 1984

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Log Tops

Navajo	Surface
Wingate	915'
White Rim	2050'
Cedar Mesa	2744
Upper Hermosa	3280
Ismay	4836
Desert Creek	5018
Akah	5125
Drillers TD	5164

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.)

5. LEASE DESIGNATION AND SERIAL NO.: U-49089

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: The Louisiana Land and Exploration Company

8. FARM OR LEASE NAME: Biddlecome Ranch-Federal

3. ADDRESS OF OPERATOR: 1675 Broadway, Ste. 2100, Denver, CO 80202

9. WELL NO.: 11-20

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 990' FNL 990' FWL NW NW

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 20-28S-14E

14. PERMIT NO.: 43-055-30034

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GL 5264.64' RKB 5277.64'

12. COUNTY OR PARISH: Wayne

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*	X	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.)*

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Plug 1	4964-5164'	73 sx "H"
Plug 2	3200-3000'	73 sx "H"
Plug 3	1338-1138'	73 sx "H"
Plug 4	Surface	

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 4/11/84
BY: [signature]

RECEIVED
MAR 30 1984
DIVISION OF OIL, GAS & MINING

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

SIGNED Don Wood (Don Wood) TITLE Sr. Petroleum Engineer DATE March 7, 1984

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Log Tops

Navajo	Surface
Wingate	915'
White Rim	2050'
Cedar Mesa	2744'
Upper Hermosa	3280'
Ismay	4836'
Desert Creek	5018'
Akah	5125'
Drillers TD	5164'

THE LOUISIANA LAND AND EXPLORATION COMPANY
WESTERN DIVISION
Suite 2100, Great West Life Tower
1675 Broadway
Denver, Colorado 80202

Area Code 303
623-5759

March 20, 1984

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, UT 84116

Re: LL&E Biddlecome Ranch Federal 11-20
Sec. 20-28S-14E
Wayne County, Utah

Gentlemen:

Enclosed are the following forms on the above-referenced well:

✓1. State of Utah Form OGC-1b, Notice of Intention to Abandon and Subsequent Report of Abandonment;

✓2. USGS Form 9-330, Well Completion Report;

✓3. USGS Form 9-331, Request for Approval to Abandon and Subsequent Report of Abandon.

If you have any questions, please feel free to contact us.

Very truly yours,

THE LOUISIANA LAND AND EXPLORATION COMPANY

Linda W. Sadler

Linda W. Sadler
Production Department

enclosures

RECEIVED
MAR 30 1984
DIVISION OF
OIL, GAS & MINING

LOOK EXPLORATION COMPANY

JOHN L. LOOKINGBILL CONSULTING PETROLEUM GEOLOGIST
920 SOUTH ELMIRA STREET ★ DENVER, COLORADO 80231 ★ (303) 344-3464

RECEIVED

APR 10 1984

DIVISION OF OIL GAS & MINING

March 23, 1984

Mr. Robert T. Sellars, Jr.
The Louisiana Land and Exploration Co.
Suite 2100, Great West Life Tower
1675 Broadway
Denver, Colorado 80202

Re: Geological Well Report
L L & E
No. 1 Biddlecome Ranch 11-20 Fed.
Section 20 - T 28 S - R 14 E
Wayne County, Utah

Dear Bob:

Please be advised that distribution of the captioned Geological Well Report has been made as indicated on the attached distribution sheet.

It has been my pleasure to work with L L & E and you on this project.

Sincerely,

John L. Lookingbill

John L. Lookingbill

JLL/jl

cc: Distribution List

LOOK EXPLORATION COMPANY

JOHN L. LOOKINGBILL — CONSULTING PETROLEUM GEOLOGIST

920 SOUTH ELMIRA STREET ★ DENVER, COLORADO 80231 ★ (303) 344-3464

RECEIVED

APR 1 1984

DIVISION OF OIL
GAS & MINING

LOUISIANA LAND & EXPLORATION

No. 1 Biddlecome Ranch 11-20 Federal

Section 20 - T 28 S - R 14 E

Wayne County, Utah

John L. Lookingbill

JOHN L. LOOKINGBILL

March 22, 1984

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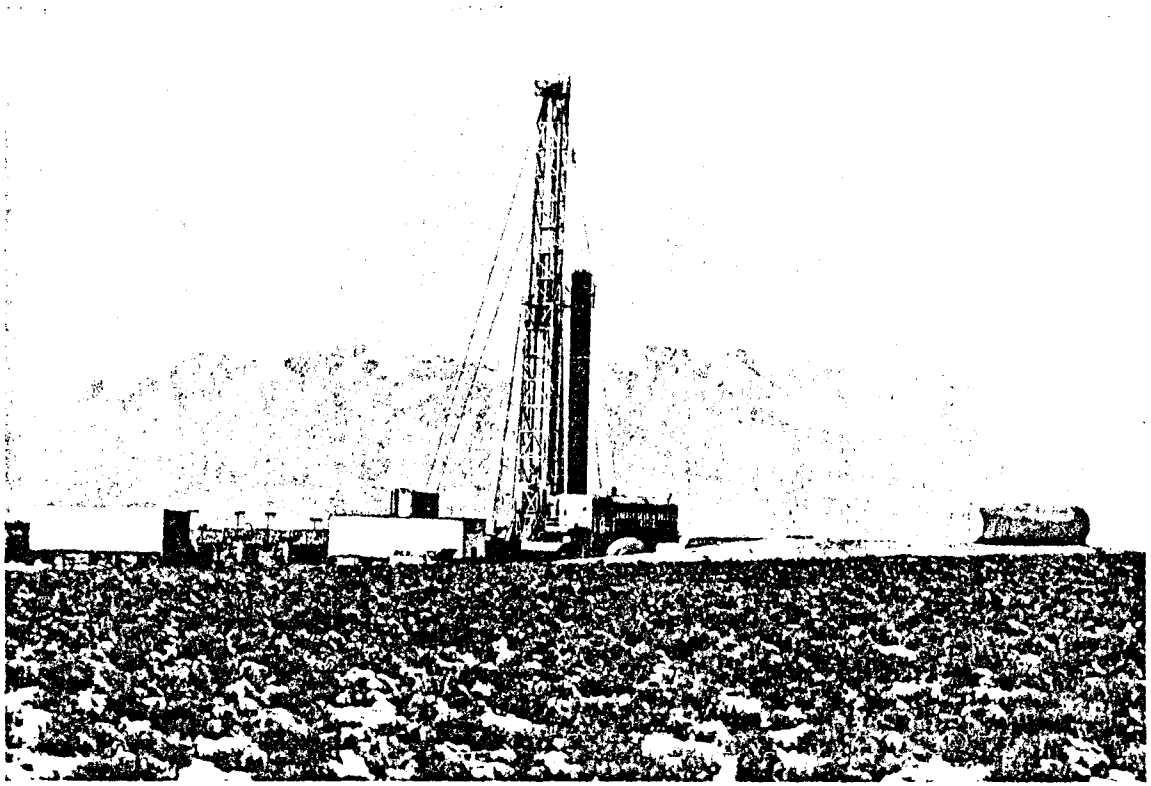
Bit Record	8
Deviation Surveys	8
Drill Stem Tests	9
Well History	9
Geological Strip Log	Pocket

Distribution List:

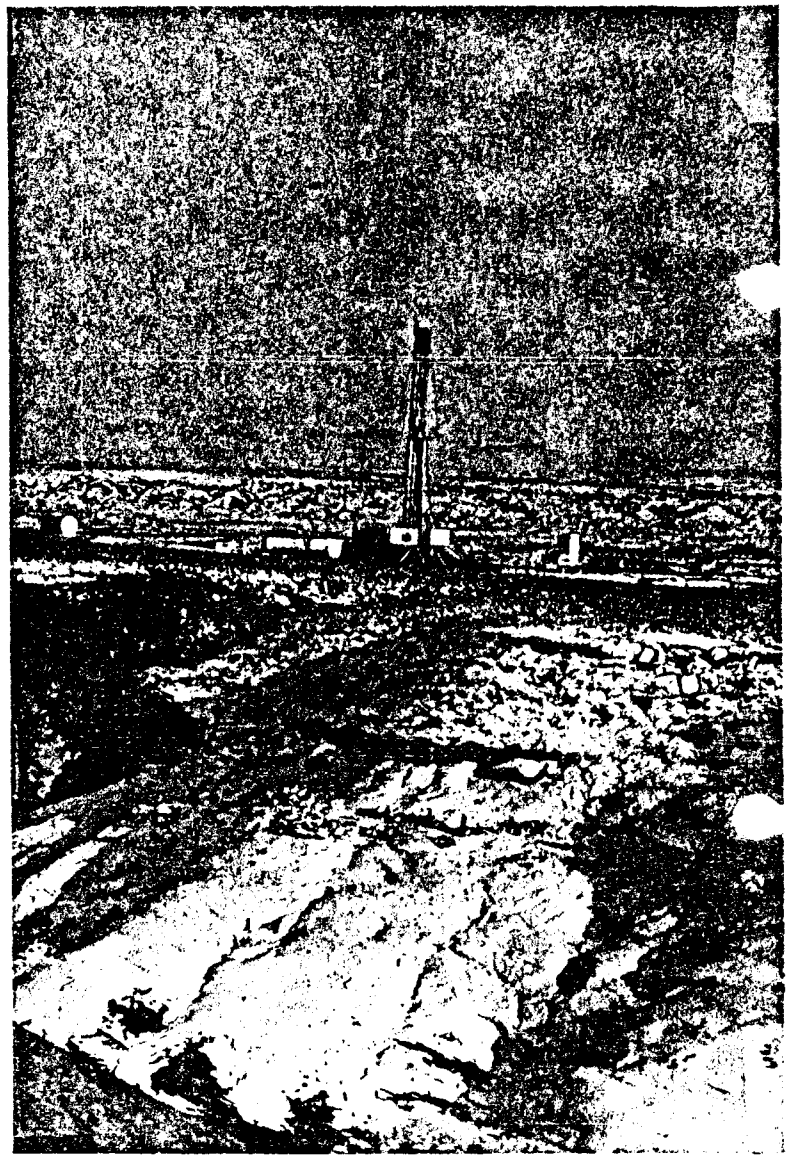
Geological Well Report

Louisiana Land & Exploration
No. 1 Biddlecome Ranch 11-20 Federal
Section 20 - T 28 S - R 14 E
Wayne County, Utah

Louisiana Land & Exploration Co. Suite 2100, Great West Life Tower 1675 Broadway Denver, CO 80202	2 Copies
Elliot A. Riggs Box 711 Farmington, NM 87401	1 Copy
Walter K. Arbuckle 1580 Lincoln St., Suite 1220 Denver, CO 80203	1 Copy
Wm. M. Obering c/o Warrior Oil 1580 Lincoln St., Suite 920 Denver, CO 80203	1 Copy
Texaco, Inc. Attn: W. P. Agster P.O. Box 2100 Denver, CO 80201	1 Copy
State of Utah Division of Oil & Gas Conservation 1588 West North Temple Salt Lake City, UT 84116	3 Copies
U.S.G.S. P.O. Box 1170 126 Elk St. Rock Springs, WY 87401	3 Copies
B. W. (Bob) Ramsey Star Rt. 2 Box 767 Hemphill, TX 75948	1 Copy



View looking southwest. Henry Mountains in the background.



View looking east. Navajo sandstone in foreground.

LOUISIANA LAND & EXPLORATION

No. 1 Biddlecome Ranch 11-20 Federal

Section 20 - T 28 S - R 14 E

Wayne County, Utah

GEOLOGICAL WELL SUMMARY

COMPANY: The Louisiana Land & Exploration Co.
Suite 2100, Great West Life Tower
1675 Broadway, Denver, CO 80202
(303) 623-5759

WELL: No. 1 Biddlecome Ranch 11-20 Federal

LOCATION: 990' FNL & FWL (SE NW NW)
Section 20 - T28S - R14E
Wayne County, Utah

AREA: Robbers Roost Prospect
San Rafael Desert
Northwestern Paradox Basin

ACCESSIBILITY:

From the West Winds Truck Stop in Green River, Utah, westerly via I-40 a distance of 13.3 miles, taking the Hanksville exit; south on Utah State No. 24 towards Hanksville a distance of 25.2 miles (0.5 mile past Goblin Valley turnoff); turn left (east) at Roost Flats, Ranger Station, etc. sign, leaving black top, and proceed southerly past cattle pens on the right at 6.8 miles, then easterly, crossing Flat Top cattleguard at 2.8 miles farther, past Dugout Springs turnoff to the left at 1.5 miles farther; then southerly to the Horseshoe Canyon - Hans Flat Ranger Station fork at 13.2 miles, bear right and go to the French Spring - Eker Ranch fork at 7.2 miles farther; go to the right (Eker Ranch) a distance of 0.1 mile, and there, take a hard right and proceed westerly 5.0 miles past the Murphy No. 4 Nequoia Arch dry hole marker on the left (SW SW 14-T28S-R14E), then continue an additional 3.5 miles to the well location. Total distance from Green River to the location is 78.5 miles (38.5 miles of paved road, 40 miles of dirt road).

SPUD DATE: 1-28-84, 5:30 P.M.

DRILLING COMPLETION DATE: 2-21-84, 3:30 A.M.

ELEVATION: 5256.6' G.L., 5269.6' K.B.

TOTAL DEPTH: 5164' (Driller), 5158' (Schlumberger)

CASING:

16" @ 40'
9-5/8" @ 1238' (1234' by Schlumberger)

CURRENT STATUS:

Plugged & abandoned, 2-23-84
Plugs: #1, 4964-5164', 73 sx
#2, 3200-3000', 73 sx
#3, 1338-1128', 73 sx
#4, Surface plug & marker
Released rig, 2-23-84, 10:00 A.M.

DRILLING CONTRACTOR:

Energy Search Drilling Company
P. O. Box 190
Farmington, New Mexico 87401
(505) 326-1135

Rig #2, Cabot-900

Tool Pusher: Calvin Anderson

MUD COMPANY:

Newpark Drilling Fluids, Inc.
Dwight Strickland, President
818 Metrobank Bldg.
Denver, Colorado 80202
(303) 292-0355

Mud Engineer: Ray Carlson
101 Burton Plaza II
1952 East 7000 South
Salt Lake City, Utah 84121
(801) 943-7760

HYDROCARBON LOGGING:

Intermountain Geo-Tech, Inc.
Nick Larken, Owner
P. O. Box 158, 361 Palmer
Delta, Colorado 81416
(303) 874-7762, (303) 874-8614

Loggers: Dave Meade
Dale Lockhart
Jan Johnson

LOG SURVEYS:

Schlumberger Well Services
P. O. Box 250
Farmington, New Mexico 87401
(505) 325-5006

Field Engineers: George Bain
Tom Link
Dave Maurer

LOG SURVEYS (CONTINUED):

~~FDC/CNL~~		1234' - 5155'
GR/N(por), in csg.		0' - 1234'
~~DIL/SFL~~		1234' - 5051'
~~Cyberlook~~		4700' - 5042'

DRILLING SUPERVISION:

Bob Ramsey & Associates, Inc.
Star Route 2, Box 767
Hemphill, Texas 75948
(409) 579-3991

B. W. (Bob) Ramsey

GEOLOGICAL SUPERVISION:

Look Exploration Company
920 South Elmira St.
Denver, Colorado 80231
(303) 344-3464

John L. Lookingbill

SAMPLES:

Thirty foot (30') samples were caught from 80' to 1244'. The quality was only fair to a depth of 450'. Below this depth, quality was very poor due to heavy contamination by LCM.

Ten foot (10') samples were caught from 1244' to 5060' and 5110' to total depth of 5164'. Quality was good to poor. The poorer intervals below 3700' had considerable red and red-brown silt and shale cave from uphole in addition to LCM contamination.

Five foot (5') samples were caught from 5060' to 5110', and were of generally poor quality.

Cuttings were examined under white fluorescent and ultra-violet lights with a binocular microscope. A washed cut of samples was delivered to the Denver office of Louisiana Land and Exploration. Unwashed samples were to be delivered by the hydrocarbon/mud logging company to American Stratigraphic Company in Denver.

FORMATION TOPS: (FDC/CNL, K. B. 5270')

Formation	Depth(')	Datum
JURASSIC		
San Rafael Group		
Carmel fm.	Surface	+5257
Unconformity		
TRIASSIC		
Glen Canyon Group		
Navajo ss.	43	+5227
Kayenta fm.	642	+4628
Wingate ss.	917	+4353
Chinle fm.	1207	+4063
Moss Back ss. member	1526	+3744
Uncomformity		
Moenkopi fm.	1609	+3661
Sinbad ls. member	1971	+3299
Lower Moenkopi member	1984	+3286
Uncomformity		
PERMIAN		
White Rim ss.	2054	+3216
Organ Rock fm.	2674	+2596
Elephant Canyon fm.	3290	+1980
Uncomformity		
PENNSYLVANIAN		
Hermosa fm. "Marker"	3812	+1458
Paradox fm.		
Ismay member	4836	+ 434
Desert Creek member	5018	+ 252
Akah member	5126	+ 144
Salt	5163(drlg bk)	+ 107
TOTAL DEPTH	5164(drlr)	+ 106

SHOWS:

1820'-5164': at a depth of 1820', in the Moenkopi formation, it was first observed that small globs of thick, heavy, dark brown oil began to come over the shaker screen, and continued to do so sporadically throughout drilling operations to total depth. The heavy oil would not fluoresce, but did exhibit a strong, streaming, green-yellow cut fluorescense, and left a very dark brown residue ring on the spot tray. The heavy oil would wash out of the cuttings, and was not intergranular.

1920'-1960': siltstone in the lower Moenkopi formation contained a uniform, very dark brown oil saturation which displayed dull gold fluorescense and had a very strong streaming yellow cut fluorescense.

3570'-3600': cuttings at this interval in the Elephant Canyon formation indicated a very cherty, sandy, finely crystalline dolomite grading to a cherty, dolomitic limestone which had a very faint yellow fluorescense, but exhibited a very faint and poor cut fluorescense only on crushing of the sample. There was no visible porosity nor stain.

4000'-4020': samples in this interval of the upper Hermosa formation consisted of light colored, silty, chalky limestone that showed rare, spotty, pale gold fluorescense that had a very faint cut fluorescense only on crushing of the cuttings. There was no stain nor visible porosity.

5030'-5040': cuttings in this interval of the Desert Creek contained two lithologies with minor shows: (1) light gray, very finely crystalline dolomite with rare spotty yellow fluorescense and a faint, slow, streaming cut, with no visible stain nor porosity; (2) a light colored, very sandy limestone with a very spotty, yellow-gold fluorescense and a faint, slow streaming cut, but no visible porosity nor stain. Results of DST #1, which included this interval, confirmed the tight nature of the rocks.

5045'-5050': this zone in the Desert Creek consisted of tan, very finely crystalline, silty,limy dolomite with anhydrite inclusions. There was rare and spotty yellow-gold fluorescense with a very faint, streaming, yellow cut, but no visible stain nor porosity. DST #1 also included this interval.

5085'-5164': sample quality throughout the lower Desert Creek and upper Akah was generally poor. Minor amounts of the limestone and dolomite lithologies described above in the 5030' to 5050' intervals were present in the cuttings from 5085' to total depth, with the same rare and spotty fluorescense and faint cut. It was concluded that the presence of these lithologies with the attendant minor shows most probably resulted from cave from the overlying intervals.

SUMMARY AND COMMENTS:

Very few mechanical problems were experienced in the drilling of this well. Lost circulation occurred at 458' in the lower part of the Navajo sandstone and again in the uppermost part of the White Rim sandstone at 2081'. Maximum deviation was 4 3/4° at 2617' in the lower White Rim. A total of ten (10) bits were used; total rotating time was 341.25 hours. Remoteness of the location resulted in a very long water haul; water source was the Dirty Devil River at Hanksville, and required approximately a 160 mile round trip. Cost of supplying water for the operation was $47,354.

The subject well is located in the southern part of the San Rafael Desert area of southeastern Utah. Geologically, it is situated on the northwest shelf of the Paradox Basin, near the southwest flank of the Nequoia Arch and approximately 33 miles southeast of the southern plunge of the San Rafael Swell.

The primary objective for this test well was to evaluate the stratigraphic potential of the Desert Creek member of the Paradox formation. Subsurface well control in the immediate area has delineated a northwest plunging nose. Two dry holes along the north flank of the structural nose encountered porosity in the Desert Creek which gave up water recoveries on drill stem tests. The Continental #1 State (SW SW 36-27S-13E, P & A in 1959, TD 6820' in Mississippian carbonates) found over 80' of porosity in Desert Creek dolomite which reportedly exhibited slight stain and fluorescense in the uppermost part of the porosity. DST recovery was 1700' of muddy brackish/salt water. Approximately 25' of porosity was also encountered in the Desert Creek in the Superior #31-30 Hanksville Unit (NW NE 30-27S-13E, P & A in 1962, TD 7664' in Cambrian rocks) which gave up 360' of muddy water on DST. All other wells in the vicinity penetrated thinner and tight Desert Creek intervals. The original exploration concept for the Robbers Roost prospect was to move up-dip from the porous and water-bearing Desert Creek that was encountered in the aforesaid dry holes, a rather simple technique which has resulted in the discovery of several Paradox carbonate fields in the southern part of the Paradox Basin (Cache, Patterson Canyon, Bug, Papoose Canyon). In order to cover the maximum possible extent of a porous Desert Creek trend, LL&E assembled a 39,704 gross acre block for the Robbers Roost prospect. It was recognized at that time that the prospect would most probably require a mutiple test program for full evaluation.

This initial test well was located 3.5 miles south-southeast and presumably ("to expect with confidence") up-dip to the 80+' of Desert Creek porosity found in the Continental #1 State, and was located 3 miles north of the Phillips #1758-A Dirty Devil (NE NE 1-29S-13E, P & A in 1959, TD 6404' in the Mississippian) which had a thin and tight Desert Creek section. Structurally, on top of the Desert Creek, the subject well was 217' high to Continental and 4' low to Phillips. Although this well "came in" structurally high to Continental as anticipated, unfortunately, it penetrated thin and tight Desert Creek interval similar to that

SUMMARY AND COMMENTS (Continued):

found in the Phillips dry hole, rather than the thick and porous Desert Creek encountered by the Continental dry hole. Of significance are the minor shows that the subject well found in the upper Desert Creek intervals of 5030-40' and 5045-50'. Nonporous carbonates in these zones contained spotty yellow to yellow-gold fluorescense with faint yellow streaming cut fluorescense. This suggests that the subject dry hole may very well be proximal to a hydrocarbon accumulation, i.e., down-dip and northerly towards the Continental dry hole.

Although this dry hole has reduced the area of Desert Creek stratigraphic potential on LL&E's large acreage block almost by half, the original geologic concept is still most valid, and there remains a significantly sizable area of excellent potential for the Desert Creek. At least one additional exploratory test well is necessary to evaluate the excellent possibility of the existence of an accumulation between the up-dip tight Desert Creek section penetrated by the #1 Biddlecome Ranch dry hole and the thick and porous, water-bearing Desert Creek dolomite found down-dip in the Continental #1 State, 3.5 miles to the north. The potential for a 30 to 40 million barrel oil field is certainly considered to be a worthy target. It is strongly recommended that another Desert Creek test be drilled on the Robbers Roost prospect.

The dark brown, "heavy" oil shows that the subject dry hole found in the Moenkopi formation are not considered to be very significant. Almost all of the wells that have been drilled in the general area have encountered similar shows, and very rarely has any free oil ever been recovered on testing of these sediments.

Respectfully submitted,

John L. Lookingbill

John L. Lookingbill
March 22, 1984

BIT RECORD:

No.	Size(")	Make	Type	Out(')	Feet	Hours
1	12-1/2	STC	FDT	768	768	23.75
2	12-1/2	STC	FDT	1244	476	11.00
3	8-3/4	STC	FDT	1624	380	12.75
4	8-3/4	STC	F2	2474	850	35.25
5	8-3/4	STC	F2	3303	829	35.25
6	8-3/4	Sec	S86F	3598	295	24.25
7	8-3/4	STC	F3	4215	617	74.75
8	8-3/4	Sec	S86F	4795	580	71.00
9	8-3/4	STC	F3	5085	290	42.25
10	8-3/4	STC	F3	5164	79	11.00

TOTAL ROTATING HOURS: 341.25

DEVIATION SURVEYS:

Depth (')	Deviation (°)	Depth (')	Deviation (°)
175	3/4	2474	4
299	1/4	2617	4-3/4
519	1/2	2700	3-1/2
634	1-1/2	2885	3
737	1-1/4	3103	3-1/2
766	2	3285	3
872	3/4	4215	1-1/4
996	3/4	4780	1-1/4
1121	1	5030	1
1450	1-3/4	5164	1
1624	1		

CORES: None

DRILL STEM TESTS:

Testing Company: Halliburton Services
Drawer 960
Farmington, New Mexico 87401
(505) 325-3575

Tester: Jim Robinson

Test #1: 5022' - 5080', (Desert Creek Zone)
(1/8" surface choke, 3/4" bottom hole choke)

Initial open: 5 minutes
Initial shut-in: 30 minutes
Final open: 60 minutes
Final shut-in: 120 minutes

Recovery: 5' drilling mud (R_w 3.08 @ 58°F)
Spl. Chamber: 0.15 CF air + 450cc drilling mud (R_w 3.07 @ 58°F)

	TOP (5004')	BOTTOM (5077')
IHP	2384.4	2397.4
IFP	8.0-8.0	40.2-40.2
ISIP	8.0-638.9	40.2-667.2
FFP	8.0-8.0	40.2-40.2
FSIP	1324.0	40.2-1344.5
FHP	2384.4	2397.4

Bottom Hole Temp.: 94°F @ 5076'

WELL HISTORY:

Date	Days Since Spud	Depth	Footage	Activity, as of 6:00 AM
1/19/84	0	0	0	MI road equip. Remove snow from existing road.
1/20/84	0	0	0	Removing snow from road. Weather: low -16°, hi 8°, clear calm.
1/21/84	0	0	0	Finished snow removal from existing road. Prep build new road into location. Weather: low -18°, hi 12°, calm, foggy.
1/22/84	0	0	0	Building loc. Built 3 miles new road to loc. Weather: low -20°, hi 16°, calm, light snow.

WELL HISTORY (CONTINUED):

Date	Days Since Spud	Depth	Footage	Activity, as of 6:00 AM
1-23-84	0	0	0	Building location.
1-25-84	0	0	0	Digging reserve pit. Weather: low -5°, hi 35°, calm, hazy.
1-26-84	0	0	0	Digging reserve pit. Weather: low 8°, hi 34°, calm, clear.
1-27-84	0	0	0	MIRT ($43,000). Drlg rat hole. Weather: low 0°, hi 37°, calm, cloudy.
1-28-84	0	0	0	RURT. Set 16" conductor @ 40'. Weather: low 4°, hi 28°, calm, clear.
1-29-84	1	332	332	Drlg w/water. Drld 9.75 hrs. Surveys 0.5 hr. PU DC 0.75 hr. WO wtr 13 hrs. Surveys: 3/4° @ 175', 1/4° @ 299'. Mud: wt 8.4, vis 28, Cl 600. Bit wt 5-20, RPM 55, PP 1250, SPM 180. Weather: low 0°, hi 33°, calm, foggy. Spud @ 5:30 PM, 1/28/84, 12¼" hole.
1-30-84	2	766	440	Drlg. Drld 14 hrs. Surveys 0.75 hr. Working DP 1 hr. WO LCM & wtr 5.75 hrs. Lost circ @ 458', mxd & spotted LCM pills (110 bbls.) 2.50 hrs. Surveys: 1/2° @ 519', 1½° @ 643', 1¼° @ 737'. Mud: wt 8.4, Cl 600, solids 1%. Bit wt 25, RPM 55, PP 700, SPM 80. Weather: low 10°, hi 40°, calm, clear.
1-31-84	3	1215	449	Drlg. Drld 9.75 hrs. Surveys 1.50 hrs. Trip for bit #2 1.75 hrs. PU BHA & reamed to bottom 10 hrs. Rig maint 0.5 hr. Rig repair 0.5 hr. Surveys: 2° @ 766', 3/4° @ 872', 3/4° @ 996', 1° @ 1121'. Mud: wt 8.4, vis 30, Cl 400, solids 1%, pH 7.0. Bit wt 20-25, RPM 65-80, pp 700-1200, SPM 80-92. Weather: low 15°, hi 40°, calm, clear.

WELL HISTORY (Continued):

Date	Days Since Spud	Depth	Footage	Activity, as of 6:00 AM
2/1/84	4	1244	29	Cutting csg. Drld 1.25 hrs. Tripping 4.25 hrs. Reamed tight hole @ 1185-1244', 1.25 hrs. Circ & cond hole for csg 4.25 hrs. Run & cmt csg, 3 hrs. WO Halliburton 8 hrs. WOC 2 hrs. Ran 30 jts, 1235.42', 9 5/8", 36#, K-55. Cmtd w/full returns, circ 65 bbls to reserve pit. Plug down @ 8:00 PM, 1-31-84, w/1200 psi. Surveys: 3/4° @ 996', 1° @ 1121', PV 16, YP 7, gels 2/9, Cl 500, solids 1.6%, pH 9.0. Bit wt 25, RPM 80, PP 1200, SPM 184. Weather: low -5°, hi 40°, calm, clear.
2/2/84	5	1244	0	Drlg float equip. Cut 16" & 9 5/8" and welded head. Cmtd annulus between 15" & 9 5/8" (cmt fell 35') @ 35' w/100 sx, 3% CaCl. Nippled up & tested rams & manifold to 1200 psi. Drld plug & float, tagged cmt @ 1184'. Weather: low 0°, hi 36°, calm, clear.
2/3/84	6	1695	451	Drlg 8 3/4" hole. Drld 16.50 hrs. Surveys 0.75 hr. Trip for bit #4, 1.75 hrs. Reamed tight hole @ 1500-30' & 1560-90', 3.50 hrs. Circ & cond mud prior to trip, 0.75 hr. Tested BOP, 0.25 hr. Rig maint, 0.50 hr. Surveys: 1 3/4° @ 1450', 1° @ 1624'. Mud: wt 8.7, Vis 39, WL 7.8, PV 14, YP 8, gels 3/9, Cl 700, solids 2.6%, pH 9.5. Bt wt 30, RPM 65-100, PP 1050, SPM 98. Weather: low -5°, hi 40°, calm, clear.

WELL HISTORY (Continued):

Date	Days Since Spud	Depth	Footage	Activity, as of 6:00 AM
2/4/84	7	2087	392	Mixing & spotting LCM. Drld 13.50 hrs. Reamed tight hole @ 1776-1827', 0.75 hrs. Mxd & spotted LCM @ 2081' & 2087', 9.50 hrs (could fill hole, but wouldn't stand). Rig maint. 0.25 hr. Lost est 400-450 bbls mud. Mud: wt 8.8, vis 38, WL 7.6, PV 1.3, YP 6, gels 2/6, Cl 600, solids 3.4%, pH 9.5. Bit wt 30, RPM 65, PP 1150, SPM 98. Weather: low -4°, hi 47°, calm, clear.
2/5/84	8	2284	197	Drlg. Drld 9.50 hrs. Mxd mud & LCM 10.75 hrs. Tripping 2.25 hrs. Reaming & cond mud, 1.0 hr. Rig maint, 0.5 hr. Mxd LCM & built volume. RIH & drld ahead, loosing 30%± returns. Reamed tight hole @ 2120-50. Mxd & sptd 80 bbl pill. POH to csg & let hole soak & heal. Filled hole w/ 45 bbls & let stand full. GIH, breaking circ slowly. Drld ahead slowly w/85-95% returns. Lost est 100 bbls mud past 24 hrs. Mud: wt 8.8, VIS 42, WL 80, PV 15, YP 8, gels 2/11, Cl 700, solids 3.4%, pH 9.0. Bit wt 30, RPM 65, PP 1100, SPM 94. Weather: low 16°, hi 45°, calm, clear.
2/6/84	9	2560	276	Drlg. Drld 13.25 hrs. Tripping for bit #5, 5 hrs. Reaming 1.75 hrs. Lost circ, 2.50 hrs. Rig repairs (pump), 1.25 hrs. Rig maint 0.25 hr. Slowly lost circ throughout day. POH after survey (4° @ 2474') for new bit. GIH to base of csg & built volume. Filled hole w/35 bbls. GIH & reamed 138' of out-of-gauge hole. Mud: wt 8.6, VIS 37, WL 74, PV 9, YP 5, gels 2/8, Cl 700, solids 2.4%, pH 9.0. Bit wt 15-30, PP 1150, SPM 94. Weather: low 25°, hi 50°, calm, clear.

WELL HISTORY (Continued):

Date	Days Since Spud	Depth	Footage	Activity, as of 6:00 AM
2/7/84	10	3144	584	Drlg. Drld 22.25 hrs. Surveys 1.75 hrs., 4 3/4° @ 2617' 3 1/2° @ 3103'. Mud: wt 8.7, VIS 39, WL 8.2, PV 8, YP 6, gels 2/8, Cl 500, solids 2.7%, pH 9.0. Weather: low 20°, hi 45°, calm, clear.
2/8/84	11	3318	174	Drlg. Drld 10 hrs. Tripping 5.5 hrs. Reaming 7.50 hrs. Rig maint 0.25 hr. Surveys 0.75 hr (3° @ 3285'). POH & change shock sub & stab. GIH w/bit #6 & hit bridge @ 2200', reamed 2200'-2580. GIH 10 stands & reamed 120' to bottom. Mud: wt 8.7, VIS 37, WL 7.4, PV 6, YP 3, gels 2/5, Cl 500, solids 2.6%, pH 9.0. Bit wt 30, RPM 70-80, PP 1200, SPM 96-100. Weather: low 18°, hi 45°, clear, breezy.
2/9/84	12	3598	280	Tripping for bit #7. Drld 22.25 hrs. Rig maint 0.25 hr. Survey 0.25 hr. (1 3/4° @ 3598'). Mud: wt 8.8, VIS 47, WL 7.2, PV 10, YP 8, gels 5/13, Cl 500, solids 3.4%, pH 9.5. Weather: low 19°, hi 47°, cloudy, breezy.
2/10/84	13	2688	90	Drlg. Drld 10.5 hrs. Tripping 3.75 hrs. Reaming 8.5 hrs. Rig repairs 0.75 hr. Rig main 0.5 hr. Trip for bit #7, reamed 75' to bottom. Very tight connection @ 3674', reamed uphole w/stabilizer @ 3545-3500'. Mud: wt 8.7, VIS 39, WL 6.8, PV 11, YP 4, gels 2/8, Cl 700, solids 3%, pH 9.7. Bit wt 30, RPM 65, PP 1000, SPM 94. Weather: low 24°, hi 50°, calm, high clouds.
2/11/84	14	3869	181	Drlg. Drld 23.5 hrs. Rig maint 0.5 hr. Mud: wt 8.8, VIS 39, WL 7.2, PV 12, YP 2/9, Cl 600, solids 3.4%, pH 9.8. Bit wt 30, RPM 65, PP 1100, SPM 96. Weather: low 22°, hi 36°, calm, partly cloudy. Front moved through w/winds & snow flurries, 2"±.

WELL HISTORY (Continued):

Date	Days Since Spud	Depth	Footage	Activity, as of 6:00 AM
2/12/84	15	4040	171	Drlg. Drld 20.5 hrs. Short trip, 1 hr. Rig maint 0.75 hr. Circ for spls, 2 hrs (@ 3869' & 3927'), no show. Mud: wt 8.8, VIS 39, WL 7.8, PV 7, YP 5, gels 2/7, Cl 500, solids 3.4%, pH 9.2. Bit wt 30, RPM 65, PP 1150, SPM 96. Weather: low 20°, hi 42°, calm, clear.
2/13/84	16	4204	164	Drlg. Drld 22.75 hrs. Short trip, 0.75 hr. Rig maint 0.5 hr. Mud: wt 8.7, VIS 39, WL 7.0, PV 9, YP 5, gels 2/8, VIS 39, WL 7.0, PV 9, YP 5, gels 2/8, Cl 500, solids 3%, pH 9.4. Bit wt 30, RPM 65, PP 1200, SPM 97. Weather: low 25°, hi 42°, calm, partly cloudy.
2/14/84	17	4335	131	Drlg. Drld 18.5 hrs. Trip for bit #8 @ 4215', 3.5 hrs. Circ bottoms up prior to trip, 0.75 hr. Rig maint 0.75 hr. Survey 0.25 hr. (1 1/4° @ 4215') Reaming 0.25 hr. Mud: wt 8.8, VIS 39, WL 7.4, PV 9, YP 4, gels 2/9, Cl 600, solids 3.8%, pH 9.6. Bit wt 30, RPM 65, PP 1200, SPM 97. Weather: low 36°, hi 52°, calm, cloudy
2/15/84	18	4526	191	Drlg. Drld 22.25 hrs. Short trip 1 hr. Rig repair 0.5 hr. Rig maint 0.25 hr. Mud: wt 8.9, VIS 39, WL 7.2, PV 7, YP 4, gels 2/8, Cl 600, solids 4.8%, pH 9.8. Bit wt 30, RPM 70, PP 1200, SPM 95. Weather: low 18°, hi 40°, calm, clear. Front moved through w/wind, mixed snow & rain.
2/16/84	19	4710	184	Drlg. Drld 23 hrs. Short trip 0.75 hr. Rig maint 0.25 hr. Mud: wt 8.9, VIS 39, WL 7.0, PV 10, YP 6, gels 2/10, Cl 500, solids 4.2%, pH 9.8. Bit wt 30, RPM 70, PP 1200, SPM 95. Weather: low 20°, hi 48°, calm, partly cloudy.

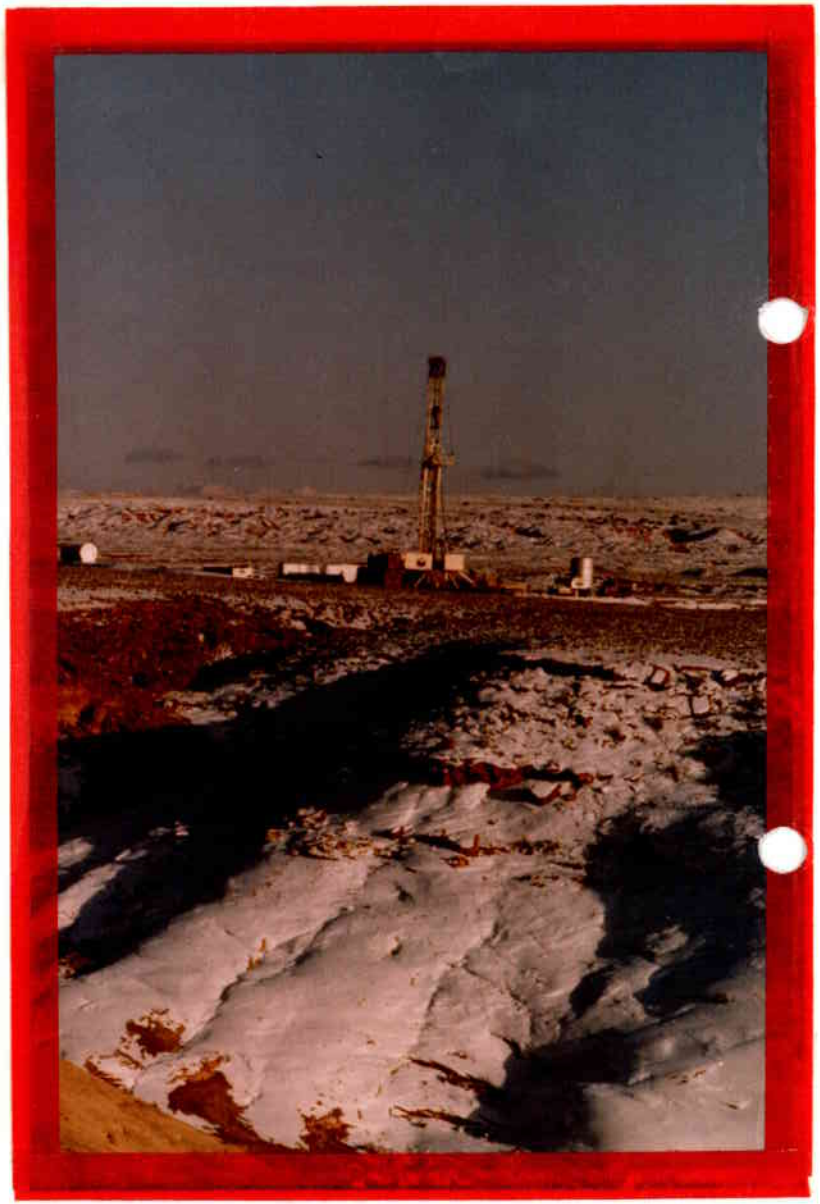
WELL HISTORY (Continued):

Date	Days Since Spud	Depth	Footage	Activity, as of 6:00 AM
2/17/84	20	4865	155	Drlg. Drld 17.5 hrs. Trip for bit #9 @ 4795', 4.5 hrs. Circ bottoms up prior to trip, 1 hr. Rig maint 0.75 hr. Survey 0.25 hr. (1 1/4° @ 4780'). Picked up new shock sub, GIH & reamed 90' to bottom. Mud: wt 8.8, VIS 37, WL 7.8, PV 8, YP 5, gels 2/7, Cl 600, solids 3.8%, pH 9.6. Bit wt 30, RPM 70, PP 1200, SPM 95. Weather: low 26°, hi 38°, windy, snowing.
2/18/84	21	5018	153	Drlg. Drld 23.75 hrs. Rig maint 0.25 hr. Mud: wt 8.9, VIS 38, WL 7.4, PV 10, YP 6, gels 3/10, Cl 600, solids 4.4%, pH 9.6. Bit wt 30, RPM 70, PP 1200, SPM 97. Weather: low 16°, hi 30°, clear, calm, 4" snow on ground.
2/19/84	22	5065	47	Rng logs. Drld 6.25 hrs. Circ bottoms up @ 5060' & 5065', 1.75 hrs. Short trip, 3.25 hrs. Circ & WO Schlumberger, 4.25 hrs. Dropped Survey & PO hole for logs, 3.5 hrs. RU & run logs, 5 hrs Survey: 1° @ 5050'. Mud: wt 8.9, VIS 40, WL 7.8, PV 8, YP 4, gels 2/9, Cl 700, solids 4%. Bit wt 30, RPM 70, PP 1200, SPM 95. Weather: low 12°, hi 40°, calm, clear.
2/20/84	23	5085	20	Rng DST #1 @ 5022-80' (Desert Ck). Drld 3.75 hrs. Finished rng logs 2.5 hrs. GIH & wash 65' to bottom. Circ for DST, 4.5 hrs. Short trip 0.5 hrs. Circ, WO tst tools, 3.0 hrs. POH & PU tst tools, 4.0 hrs. GIH w/tst tools 3.0 hrs. Mud: wt 8.9, VIS 39, WL 7.5, PV 9, YP 5, gels 2/13, Cl 600, solids 4%, pH 9. Bit wt 30, RPM 70, PP 1200, SPM 95. Weather: low 16°, hi 39°, clear, calm.

WELL HISTORY (Continued):

Date	Days Since Spud	Depth	Footage	Activity, as of 6:00 AM
2/21/84	24	5164	79	Circ for logs. Ran DST #1, 4.75 hrs. Trips 4.75 hrs. Lay down tst tool, 1.0 hr. Drld 11.0 hrs. Circ drlg bk @ 5163' and for logs, 2.5 hrs. Mud: wt 8.9, VIS 38, WL 7.8, PV 7, YP 6, gels 2/9, Cl 2500, solids 4%, pH 9.2. Bt wt 30, RPM 70, PP 1200, SPM 97. Weather: low 15°, hi 40°, calm, clear. On circ of drlg bk @ 5263', Cl increased from 600 to 2500 ppm, indicating top of Paradox salt.
2/22/84	25	5164	0	Laying down DP. Circ, WO Schlum, 1 hr. Short trip 0.75 hr. Circ, WO Schlum 5.75 hrs. Survey & POH, 4 hrs. Run FDC/CNL, 2 hrs. Lay down BHA 1.5 hrs. Rig maint 0.5 hr. PU 4500' DP & GIH, 3 hrs. Circ, WO Halliburton, 4.5 hrs. Set plug #1 @ 4964-5164' w/73 sx, 0.5 hr. Pull 6 stands, PU Kelly & circ DP clear, 0.5 hr. Survey: 1° @ 5164'. Mud: wt 8.9, VIS 37, WL 7.8, PV 8, YP 5, gels 2/8, Cl 1800, solids 4%, pH 9.3. Weather: low 25°, hi 42°, calm, cloudy. Schlumberger TD: 5158'.
2/23/84	26	5164	0	RDRT. LD DP to 3200', 2 hrs. Set plug #2 @ 3200-3000' w/73 sx, 0.5 hr. Pulled 6 stands & clear DP, 0.5 hr. Finished LD DP & kelly, 2.5 hrs. RD BOPs, cut csg & clean pits 9 hrs. SD, 6 hrs. Weather: low 25°, hi 50°, calm, clear.
2/24/84	27	5164	0	Plugged & Abandoned. Set surface plug & dry hole marker, 4 hrs. Released rig, 10:00 AM, 2/23/84. FINAL REPORT. EST. CUM. COST: $494,971.00 (Mud: $44,677.00; Water: $47,354.00)

View looking southwest. Henry Mountains in the background.



View looking east. Navajo sandstone in foreground.

LOUISIANA LAND & EXPLORATION

No. 1 Biddlecome Ranch 11-20 Federal

Section 20 - T 28 S - R 14 E

Wayne County, Utah

43-055-30034

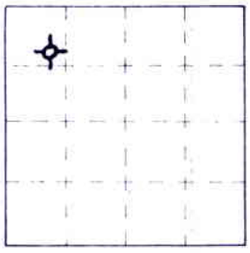
COMPANY **LOUISIANA LAND & EXPLORATION**

FARM *Biddlecome Ranch 11-20 Federal* WELL NO. *1*

SECTION *20* TWP. *28S* RGE. *14E*

FOOTAGE *990' FNL & FWL (SE NW NW)*

STATE *UTAH* COUNTY *Wayne*



LOCATION
1" = 4000'

Samples by *John Lookingbill* Elevations: G.L. *5256.6'* Casing: *16" @ 40'*
D.F. *5268.4'* *9⅝" @ 1238'*
Contractor *Energ Search Drlg. Co., Rig No. 2.* K.B. *5269.6'*

Total Depth *5164' (Drlr)* *5158' (Sch)* PBTD

Spud Date *5:30 PM, 1-28-84* Drilling Completed *3:30 AM, 2-21-84* I.P. *P&A 2/23/84*

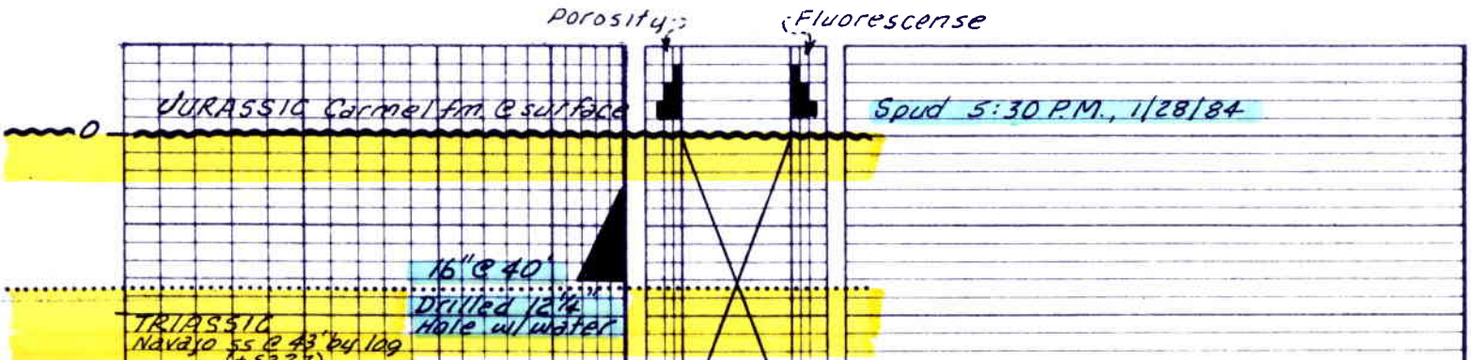
REMARKS: *30' samples were caught from 80' to 1244'; quality was fair to very poor due to much LCM contamination. 10' samples were caught from 1244' to 5060' and 5110' to 5164'; quality was good to poor, poorer intervals are indicated on the log and were characterized by much cave and LCM. 5' samples were caught from 5060' to 5110' and were generally poor due to cave from up hole.*

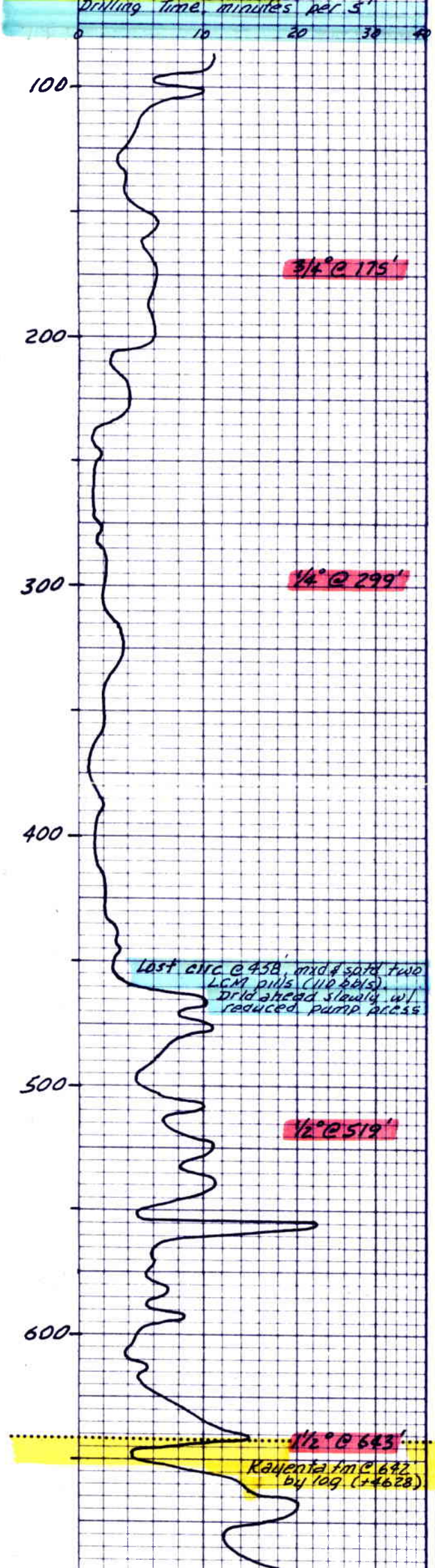
Litholog is lagged to drilling time and carbide lags provided by the mud logging unit. Minor adjustments are made to correspond to the FDC/CNL.

CONGLOMERATE	COAL	GLAUCONITIC
SANDSTONE	CHERT	BENTONITIC
SHALE	SILICEOUS	PYRITE
SILTSTONE	CARBONACEOUS	CALCITE or DOLOMITE CRYSTALS
MARLSTONE	CALCAREOUS	OÖLITES, *PELLETS*
LIMESTONE	LIMESTONE STRINGERS	FOSSILS
DOLOMITE	DOLOMITE STRINGERS	DOLOMITIC
ANHYDRITE	ANHYDRITE STRINGERS	NO SAMPLES
GYPSUM	*CHALKY*	CAVINGS (cannot interpret)
SALT	*EARTHY*	VERY POOR SAMPLES (questionable interpretation)

UNCONFORMITY

FORMATION CONTACT





Samples start @ 80' in Navajo ss.

SS: v. lt yell, v. lt or, wh, vf-fg, occas mg, SR-R, consid rd-brn & rd Carmel cave

Tr SILT: brick-rd to or-rd, finely mic.

SS: lt or, some v. pale pink, f-mg, SR-R, occas floating rded cse qtz grains, fri, non calc, sl silty w/ occas v' thin lt or SILT intbds.

SS: AA w/ occas tr black grains.

332'
1/29/84

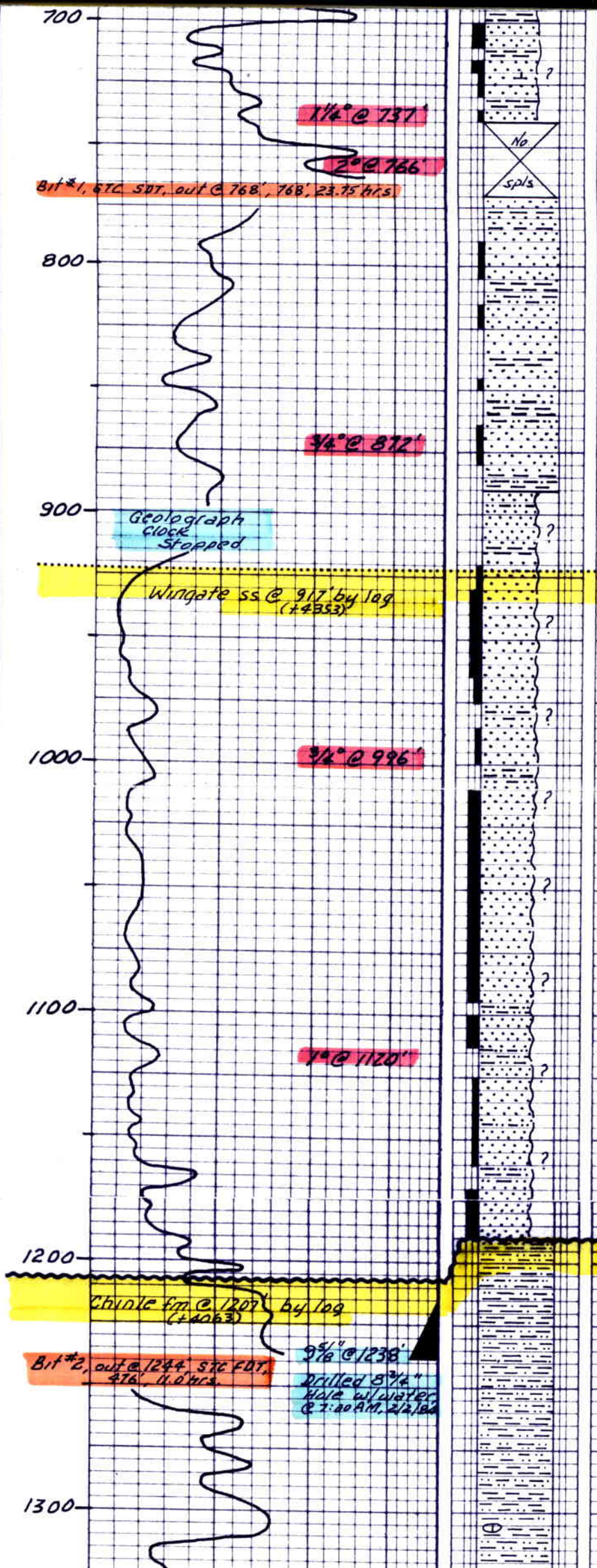
VERY POOR SAMPLES (80-95% LCM)
minor amounts of loose grains suggest ss w/ minor silt intbds as above.

SS: clear, lt yell, lt or, vf-fg, SR, occas cse floating rded qtz grain.

SH: purp, lav-rd
SS: v pale pnk, lt lav, vfg-fg, SA-SR, sl calc

VERY POOR SAMPLES (90%+ LCM)

Drilling depths as of 6:00 A.M.



766'
1/30

SS: v pale pnk, vf-fg, SA-SR w/ thin intbds of SH: lav, purp, mott.

SS: wh to clear, lt pnk, v pale purp, vf-fg, SA
SH: maroon, rd-brn, mic
SILT: rd to rd-brn, finely mic, v sl sdy

SS: lt pnk as above, bcmg lt or, vf-fg, SR, silty w/ some rd-brn SH intbds.

VERY POOR SAMPLES (90% + LCM)

Loose grains & v minor clusters suggest
SS: v lt or, lt brn-or, vf-fg, SR, non-calc, silty w/ thin intbs of or SILT & rd-brn silty SH

SS: or, vfg, SR, silty, fri

SILTSTN: or-rd, brick-rd, dk brn-rd, tr pnk-purp, argil, occas sl sdy, mic, interbd w/
SH: dk rd, brn-rd, brick rd, mic, sl silty.

1215'
1/31

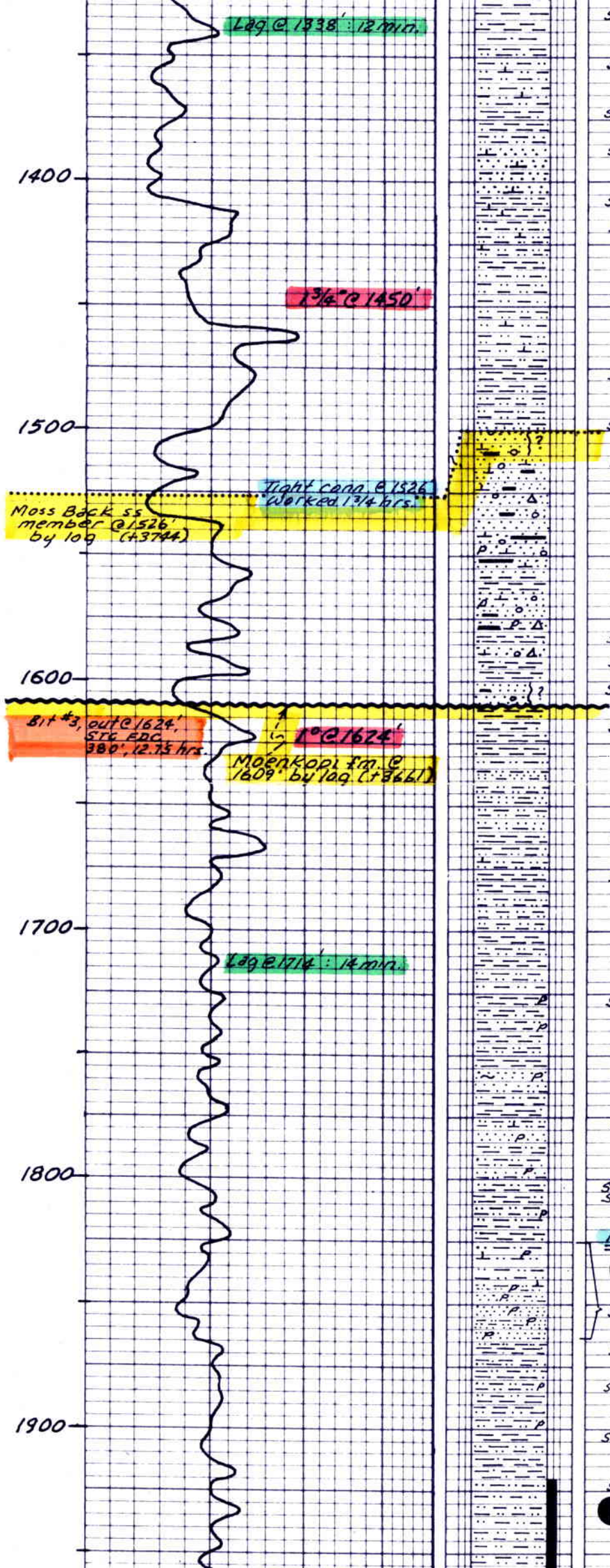
SILTSTN: mostly or-rd to brn-rd
SH: brn-rd, silty, v sl mic
SILTSTN: brn-rd, or-rd, argil

1244'
2/1/84
2/2

w/ intbds SH: dk rd, sl fiss, finely mic, silty

SH: dk rd, brick rd, fiss, silty, finely mic

Tr LS: lt or, cryptoxln, hd, blky & ang frags, part of nodules?
SILTSTN: rd-brn, or-rd, lt gr-grn, sdy, argil



SH: brn-rd, some v lt grn, occas silty

SILTSTN: lt gr, gr-brn, sdy, argil, sl calc

SH: brn-rd, lt gr-brn, silty

SS: rd, or-rd, vfg, SA, v silty, calc, fri, soft

SH: brn-rd, lt grn-gr, calc, occas silty

SILTSTN: rd, brn-rd, w/ v lt gr, crm, mott, sl calc w/ intbds rd-brn silty SH.

bcmg rd, pnk, crm, v sl calc to non-calc.

rd, or-rd, argil, sl calc.

SH: rd-brn, minor purp, f-ss, silty, grading to argil SILTSTN.

SS: v lt gr-grn, wh, vfg, SA-SR, silty, occas dk grains, occas v cse SR qtz grains, calc

SS: wh, v pale grn, vf-fg, occas mg, SA-SR, calc, dk carb specs & inclus, some v cse SR qtz grains & occas dk gr to grn-gr grains. w/ tr yell-gr translu cht. Bcmg f-mg

bcmg wh, mg, SA-SR, v calc, tr pyr, w/ minor coal, vit, conchoidal frac

intbd SH: lt gr to grn-gr, rd to rd-brn

w/ lt gr-grn cht nod, tr pyr, tr coal

SH: lt grn-gr, lav, rd-brn, silty

SH: mostly dk rd-brn & lav, minor lt gr-grn, silty, finely mic

Spls 100% SH. Drlg time & GR Log indicate SS, prob AA

SH: mostly rd-brn, minor v. pale grn, silty

SILTSTN: rd-brn w/ lt gr to crm mott, v sl calc, mic, occas sdy

tr SS: wh, vfg, SA, fri

SH: rd-brn, lt gr-grn, silty, sl f-ss, mic

SILTSTN: mostly rd-brn to or-brn, calc, argil

SH: mostly rd-brn, AA

1695'
2/3

SH: gr-grn, silty, mic, tr pyr, w/ occas thin intbds SILTSTN

tr SS: wh, v lt gr, vfg, silty, tr pyr & glauc (?)

SILTSTN: lt gr-grn, arg, calc, mic, sdy, grading to SS: as above, SA, common pyr, silty, clay in-fill, w/ spotty dk brn, hvy oil spots, surf stn only, contamination (?).

SH: gr-grn, mic, sl silty to v silty w/ thin intbds

SILTSTN: gr-grn, arg, tr pyr.

NOTE: @ 1820', started getting very hvy dk brn oil over screen in spotty globs. Didn't fluor, had lt grn-yell streaming cut, leaving dk brn residue ring. Washes out of spls, not intergranular. Continued coming over screen thruout drlg to TD.

SILTSTN: lt gr, lt grn-gr, calc, v finely pyr; or-tan, v sdy, bcmg SS: v fg, tan, or-tan, silty, A-SA, poor φ, clay in fill, vf pyr common, "dirty".

SH: dk brn-purp, mic, silty w/ rd-brn to or-brn SILTSTN intbds

SILTSTN: lt gr to lt grn-gr, arg, v finely pyr w/ intbds SH: grn-gr, finely mic.

SH: dk brn-purp & grn-gr AA w/ intbds of SILTSTN: lt pale grn-gr & rd-brn AA

SILTSTN: brn to dk gr-brn w/ intergranular dk brn oil stn, dull gold fluor w/ gd streaming yell cut.

Sinbad ls. member @ 1971' by log (+3299)

Lower Moenkopi @ 1984' by log (+3286)

2000

PERMIAN Whiterim ss @ 2054' by log (+3216)

Lost circ @ 2081', approx 450 bbls. Drilled ahead slowly, loosing 10 to 30% returns

2100

Mud & sptd 80 bbl LCM pill. Drld ahead slowly w/ 80% + returns.

2200

Lag @ 2244: 22 min.

Slowly loosing mud thruout

2300

2400

Bit #4 out @ 2474' STC F2 850', 35.25 hrs. Reamed 138' of out of gauge hole.

4° @ 2474'

2500

No Spls.

SILTSTN: mostly or-brn
SH: purp-brn AA, some lav-brn

LS: v lt tan to wh, crm, cryptoxln, chalky to mally, poss faint pellet outline? No vis ϕ. Consid lt pnk, lt or, cryptoxln w/ v fine pyr.
SH: pale grn, lav to purp-brn, silty, mic w/ lav SILTSTN, mic
SH: rd-brn, purp-brn, mic
SLTSTN: or-brn, sdy, mic

SH: v lt gr to gr-grn, finely mic & pyr, calc

SILTSTN: v lt gr, calc, argil, v fine pyr

Bypassing shaker, no spls

2087'
2/4

Rigged up bucket in mud tank for spls.

SS: wh, fg-mg, SR-R, clear to mostly frosted qtz grains, calc, floating v cse SR-R frosted qtz grains, occas mg lt gr grains, common to abdt pyr, fri, gd ϕ. w/ tr lt grn translu A-SR grains (epidote?) w/ common wh clay infill (kaolin) consid LCM contamination

bcmg mostly mg. well sort

loose grains, f-mg, occas v cse, frosted

2284
2/5

Abdt rd-brn silt & sh cave. Loose grains AA

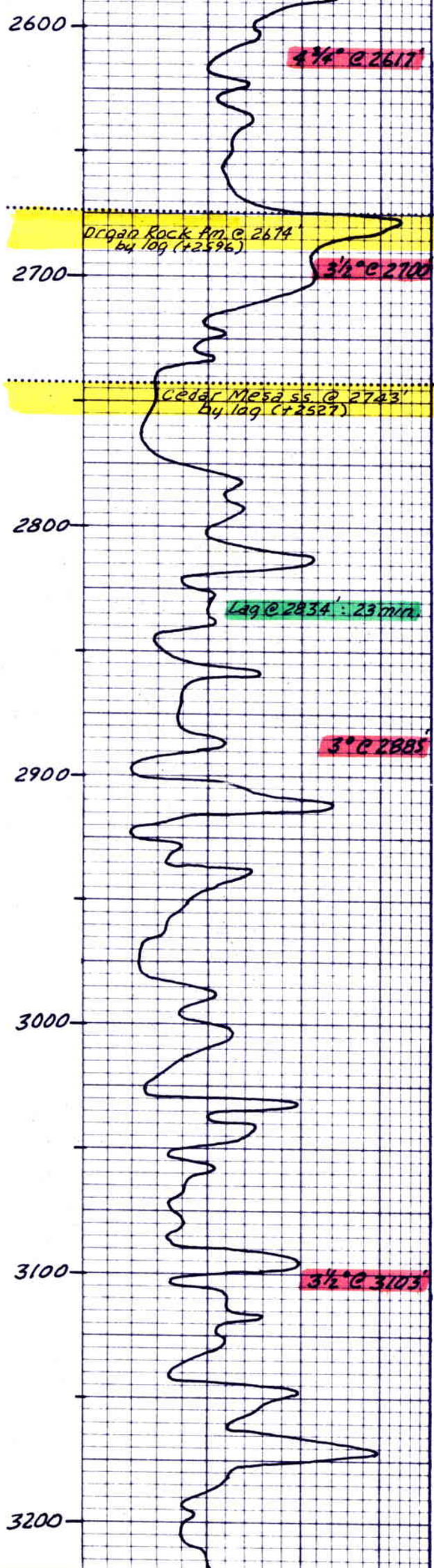
Better spls, SS: wh, f-mg, SR-R frosted grains, floating v cse SR, frosted grains pyr, v fri, gd ϕ, wh clay (kaolin)

Consid rd-brn silt & sh cvgs & LCM. occas SS cluster & loose grains as above

SS: as above w/ 70% v cse frosted, SR-R loose qtz grains
Spls 50% + rd-brn cave, occas SS cluster as above, much less v cse grains

50-80% rd-brn cvgs, much LCM
SS: as above w/ pyr, cse grains, clay

2560'
2/6



SS: as above, increase in v cse frost grains, wh clay, pyr, v frl

Interbded lith: SH rd-brn, sl fiss.
SILTSTN: lt grn, fine pyr, sdy.
SS: or, lt or-tan, v fg, SA, silty, occas m to cse qtz grains. wh clay infill

SS: bcmg v pale or, vf-fg, SA-SR, frost wh clay infill, occas cse rded qtz grains
SH: rd-brn

SS: wh, vf-fg, SA-SR, sl calc, wh clay infill frosted grains; some cse rded qtz grns, poor φ.

SH: rd-brn, or-rd, v silty, grading to
SILTSTN: rd-brn to or-rd, argil, sl mic some sl purp-rd-brn

SS: wh, crm, pale or, fg, SR, calc, floating m-cse SR qtz grains, wh clay infill, poor φ.
SILTSTN & SH: or-brn to purp-brn.

SILTSTN: or-brn, brn, arg, tr anhy inclus
SH: brn, silty, finely mic

SS: AA w/common v cse lt or stained grains
SILTSTN: or-brn, brn, argil, sdy, sl calc.
SH: purp-brn, silty, sl fiss, mic.
SS: wh, crm, fg, SR, calc, w/floating v. cse frosted qtz grains. Some gd φ. Some wh clay infill.

bcmg silty

SILTSTN: or-brn, rd-brn, sdy, calc

SS: AA, w/tr v fine pyr.
SILTSTN: lav-brn, rd-brn, argil
Tr SH: rd-brn, gr, gr-grn, silty

SS: AA, some v faint or, w/less v cse grains wh clay infill, no vis φ.

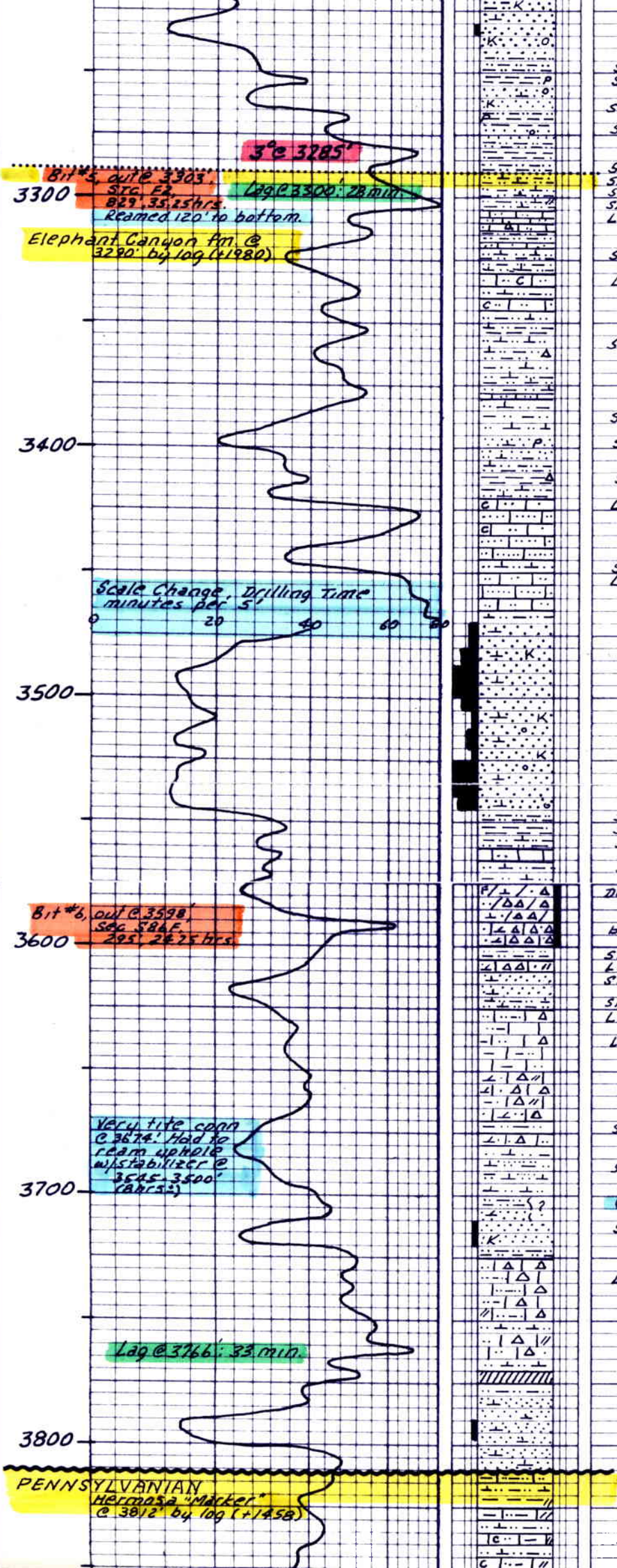
SS: mostly wh, sl increase in cse frosted grains, sl increase in clay infill. Spotty poor φ.

SILTSTN: or-brn, rd-brn, argil, sdy, mic.

3144'
2/7

SLTSTN: pnk-brn, lav-brn, sdy, calc to v. calc mic

SS: wh, crm, v ltgr, vf-fg, occas mg, SR-R, occas silty, calc, mic, occas cse rded qtz grains, some wh clay infill, tr of some spotty φ, mostly clay filled



SILTSTN: or-brn
SH: brn, silty; gr to grn-gr w/some fine pyr
SILTSTN: or-brn, lav-brn; SH: gr, grn-gr AA.
SS: AA, bcmg v pale or

SILTSTN: v lt gr, finely mic
SILTSTN: ltgr, grn-gr, pnk gr, v. mic, argil, v calc.
SILTSTN: pnk, lav, or-brn, calc, sdy, tr anhy inclus.
SH: purp-brn, grn-gr mott, sl fiss, silty.
LS: lt gr-tan, cryp-vfxln, sdy to silty. Pnkish, tr cht, wh, opaq, w/rd-or spots

3318'
2/8

SILTSTN: pnk, lav, v calc, mic

LS: pnk-crm, lt gr-tan, vfxln, silty, chalky

w/SH: rd-brn, purp-brn
SILTSTN: pnk, lav, sdy, calc, occas floating SA, mg qtz grains; tr mlky cht.

SILTSTN: pnk, lav, purp, v calc, mic, bcmg sdy grading to:
SS: pnk, vfg, calc, silty, clay filled: some wh to v faint or. Tr fine pyr.

SH: rd-brn, purp-brn, mic; tr lt tan cht w/or spots.

LS: wh, crm, vfxln, ds, silty to v sdy w/ltor to clear qtz grains, vf-cg, SA-SR, occas chalky grading to thin intbds SS: pnk-wh, vf-fg, occas cg, or mic flecks = "polka dots".

SILTSTN: pnk to lav-brn, mic, sdy, calc.
LS: v lt gr-tan, vfxln, v sdy AA w/fine brn mica "polka dots"

SS: wh, fg, well sort, SR, fri, calc, fair ϕ, some wh clay infill. No shows.

AA w/occas cse frosted rded qtz grains, good ϕ w/patchy wh clay infill.

SILTSTN: ltgr, pale grn, calc, v fine pyr
SH: gr, gr-grn, lav, silty
SILTSTN: pnk, lav, sdy, mic, calc
LS: v lt tan, vfxln, ds, silty, sdy
SILTSTN: lav, purp-brn, sdy, mic.

DOL: lt tan, vfxln, ds, no ϕ, sl calc, faint fass shadows, some sdy w/vfg SR qtz; abdt cht, mlky, tan, opaq. Faint yell fluor, v poor cut on crushing, no vis stain.
bcmg LS: tan, lt brn, cryp xln, v dolic, faint fluor, sol bn % CHT mlk, tan, gr, brn, mott.

3598'
2/9

SILTSTN: brn, sdy, calc
LS: AA w/tr anhy inclus, cht AA
SS: wh, v lt gr, vfg, calc, silty, mic, clay infill

SILTSTN: gr, dk gr, mic, v calc, grading to
LS: gr, vfxln, ds, v silty, w/mlky cht inclus

LS: tan, ltgr, vfxln, silty, argil, tr blk residue, tr mlky cht.

AA, bcmg dolic, increase in cht, mlky, tan opaq to translucc, tr anhy inclus
bcmg dk gr, gr-brn

SILTSTN: lt gr, mic, calc, sl sdy

SILTSTN: AA, bcmg more sdy, sl argil

3688'
2/10

VERY POOR SAMPLE, abdt LCM

SS: wh, f-cg, poor sort, SA-SR, frost grains, mic (dk grn fine flakes), non-calc, clay infilled, loose grains, fri, some ϕ?

LS: lt gr, gr, tan, vfxln, v silty, ds, w/CHT: tan, tan-gr, opaque, w/thin intbds SILTSTN: lt gr, gr, calc

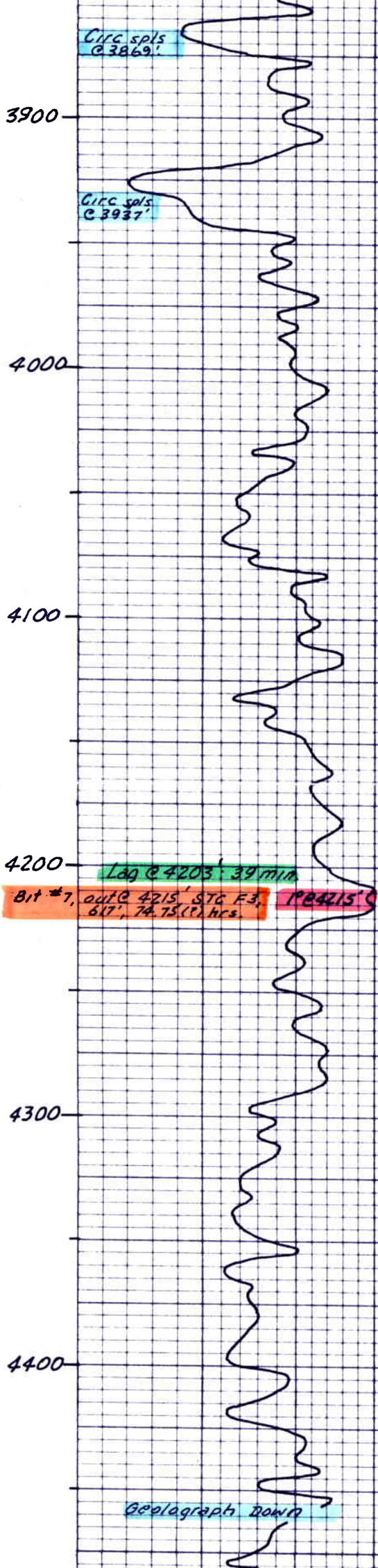
w/tr anhy inclus

ANHY: thin intbd, wh, vfxln
SILTSTN: v lt gr, mic, sdy

SS: wh, vf-fg, SA-SR, fri, calc, occas silty.

LS: tan, gr, cryp-vfxln, argil, silty, grading to
SILTSTN: gr, dk gr, argil, calc, v mic, tr
Tr SH: dk gr, fiss, soft; Tr ANHY: wh, xln

LS: gr, brn, mott, vfxln, argil, silty, chalky, tr ANHY
LS: AA w/tr dead oil residue, no fluor



VERY POOR SAMPLES, much rd-brn cave. 3869'
SS: wh, v lt tan, v lt gr, vf-fg, SA-SR, mic, fri, calc, w/ wh clay infill. No show. 2/11
LS: lt gr, gr-tan, vfxln, silty, v argil.

LS: crm, lt tan, vfxln, ds, common CHT: wh, lt tan, lt or, transluc to opaq.

SILTSTN: gr, calc, sdy, mic, fine pyr
LS: lt gr, wh, vfxln, ds, silty, chalky; CHT: or, milky, tan.

SS: wh, vf-fg, fri, calc, mic, wh clay infill, no vis ϕ, No show
POOR SAMPLES: rd sh & silt cave, LCM.

SILTSTN: lt gr, gr, v mic, calc, sdy
SH: g, calc, silty
Anhy - v thin bded (interp from FDC/CNL)
LS: lt gr, brn, mott, vfxln, silty, faint foss (Fus X sect?) tr tan-yell transluc cht.

LS: wh, crm, lt tan, vfxln, occas chalky, tr ANHY increase in anhy
ANHY: only 10-20% in spl, wh, xln, indicated by FDC/CNL log. 6 pls, mostly LS, AA ??
LS: tan, vfxln, silty, faint foss shad, anhy inclus.
SILTSTN: gr, calc, mic, sdy

LS: lt gr, crm, lt tan, vfxln, sl chalky, silty, "Coral" foss, rare spty pale gold fluor, v faint cut on crushing, w/ lt tan to or-tan CHT. No vis ϕ.
SILTSTN: gr, calc, mic
ANHY: wh, vfxln, firm

LS: v lt gr, tan, vfxln, silty, faint pellets?, dolic, anhy. 4040' 2/12

SILTSTN: gr, mic, sdy, calc

bcmg more argil, grading to silty SH.

LS: crm, v lt tan-gr, vfxln, silty, occas chalky, faint foss shadows, w/ tr CHT: tan-gr, transluc.

SLTSTN: lt gr, dk gr, calc, finely mic
POOR SAMPLES: rd & brn sh & silt, LCM

SILTSTN: lt gr to dk gr, calc, finely mic w/ tr ANHY: wh, xln, firm.
CHT: brn, w/ rare sponge spic.

SILTSTN: lt gr, mic, calc; SH: tr dk gr, hd

LS: lt gr, tan, vfxln, silty, chalky, arg, foss shadows, dolic, grading to lmy brn DOL w/ lt brn cht.

SLTSTN: gr-brn, brn, dolic, argil, mic

ANHY: wh, fxln, firm.
SILTSTN: lt gr, gr-brn, mic, dolic 4204' 2/13

LS: lt gr, gr-tan, vfxln, silty, sdy, occas chalky, CHT: milky, tan, brn, transluc; tr wh ANHY.

ANHY: tr only in spls. Interp from FDC/CNL
LS: AA, w/ tan to brn trans to opaq CHT, tr ANHY
SH: dk gr, sl calc

LS: tan, lt brn, silty, ds
SILTSTN: gr-brn, mic, calc; Tr dk gr SH.

tr anhy; tr CHT: milky, transluc

grading to v silty chalky LS, milky CHT.

LS: lt gr, tan-gr, vfxln, silty, argil, chalky

LS: AA, v silty, tr asphaltic residue, tr cht

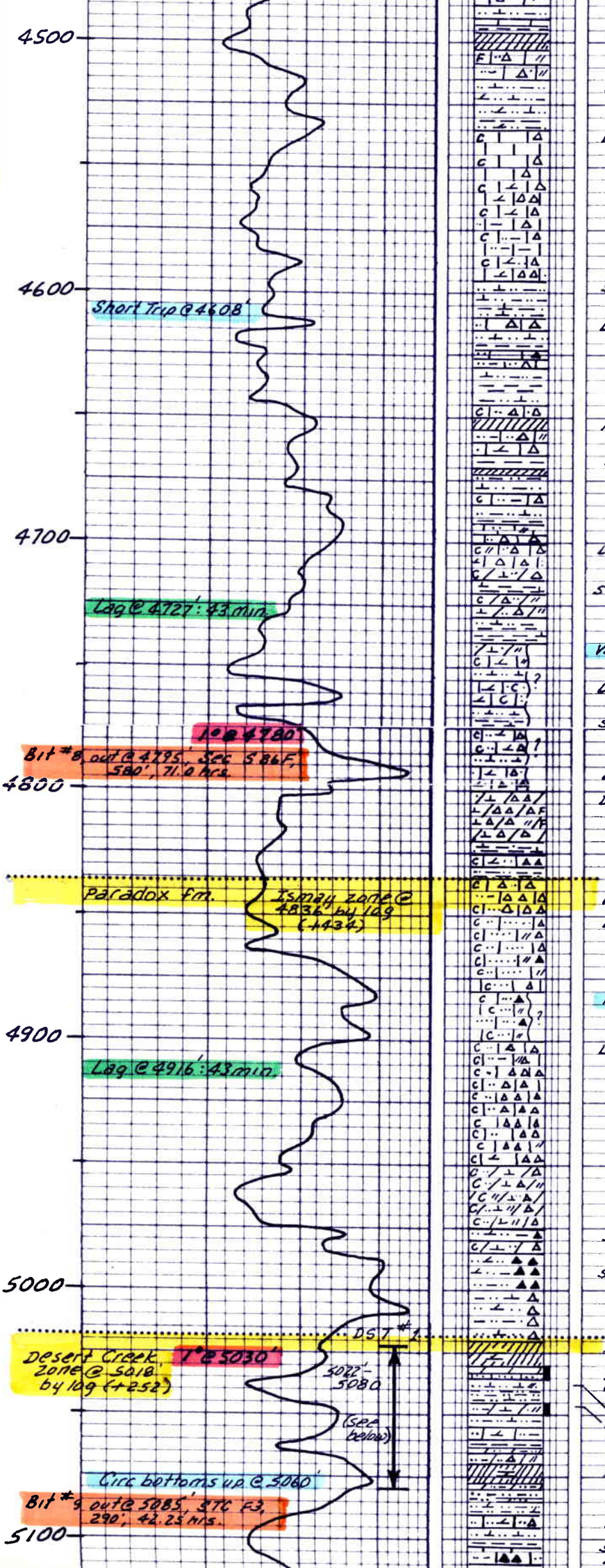
SILTSTN: gr, calc, v argil, grading to silty SH. 4335' 2/14

LS: lt gr tan-gr, vfxln, silty, chalky, tr CHT
POOR SAMPLES, rd & lav silt & sh cave
LS: AA, w/ common CHT: tan, gr-tan, opaq.
SILTSTN: gr, brn-gr, mic, calc, sdy, argil, w/
SH: gr, dk gr, silty, sl fiss

LS: lt tan-gr, vfxln, v silty, chalky, anhy inclus.
SILTSTN: lt gr, tan-gr, v calc, mic, tr dk gr SH.
LS: v lt gr, lt tan, cryp-vfxln, sl silty, tr milky CHT
tr ANHY: wh, xln

SILTSTN: lt gr, gr, calc, argil, tr SH: gr, silty, calc, sl fiss
w/ CHT: tan, smokey, transluc.

tr SH: blk, carb



w/CHT: lt tan, milky

ANHY: wh, xln, minor amt in spls. Interp from Epc/CNL

SILTSTN: gr-tan, sdy, calc to dolic

trSH: dk gr, sl fiss — 4526' 2/15

LS: lt tan-gr, vfxln, ds, no ϕ, chalky to earthy w/some CHT: milky, gr, smokey
Spls contain much rd'g & lav cave, LCM

bcmg v dolic, chalky, earthy, considerable CHT: v lt gr, translic.
bcmg argil & silty

SLTSTN: lt tan, lt gr, sdy, calc, w/ minor intbded SH: dk gr, silty, mic, calc

LS: lt tan-gr, vfxln, v silty, w/CHT: milky, tan. LS grading to SLTSTN: gr, v calc, sdy, mic, & thin intbds SH: med to dk gr, mic

SH: dk gr to blk, mic, sl fiss

ANHY: wh, v fxln

SH: dk gr to blk, mic

LS: lt gr-tan, vfxln, chalky, argil, tr anhy, w/ 30% CHT: lt tan, smokey, translic. — 4710' 2/16
bcmg dolic, grding to lmy DOL: silty, chalky.
SH: gr, dk gr, some blk & carb, sl fiss, calc.

w/anhy inclus

VERY POOR SAMPLES, much cave

LS: gr, tan-gr, vfxln, silty, chalky, dolic, mic

SH: dk gr, calc, fiss

LS: AA, bcmg v dolic; CHT: lt tan, lt gr, smokey
bcmg DOL: v lmy, addt CHT AA
DOL: lt tan gr, vfxln, sdy, silty, v lmy, chalky, earthy, v faint foss shad?; 30-40% CHT, AA
w/tr wh xln ANHY.

SH: dk gr, gr, blk, carb, calc, silty, sl fiss
LS: AA, v dolic, silty 30-40% CHT, AA

LS: lt tan gr, vfxln, bcmg sdy, chalky; CHT AA; tr ANHY
LS: wh, lt tan, v sdy, almost calcss, chalky, soft decrease in CHT, tr ANHY: wh, xln. — 4866' 2/17

w/tr blk CHT

POOR SAMPLES: 80%+ rd sh cvgs.
LS: AA, tr dk brn CHT; tr wh xln ANHY

LS: wh, crm, gr-tan, vfxln, chalky, sl dolic, sl argil, tr wh xln ANHY; w/CHT: milky, lt gr-tan

bcmg dolic, chalky & earthy; tr ANHY

bcmg more dolic, grading to lmy DOL: v calc, chty, chalky & earthy, anhy inclus

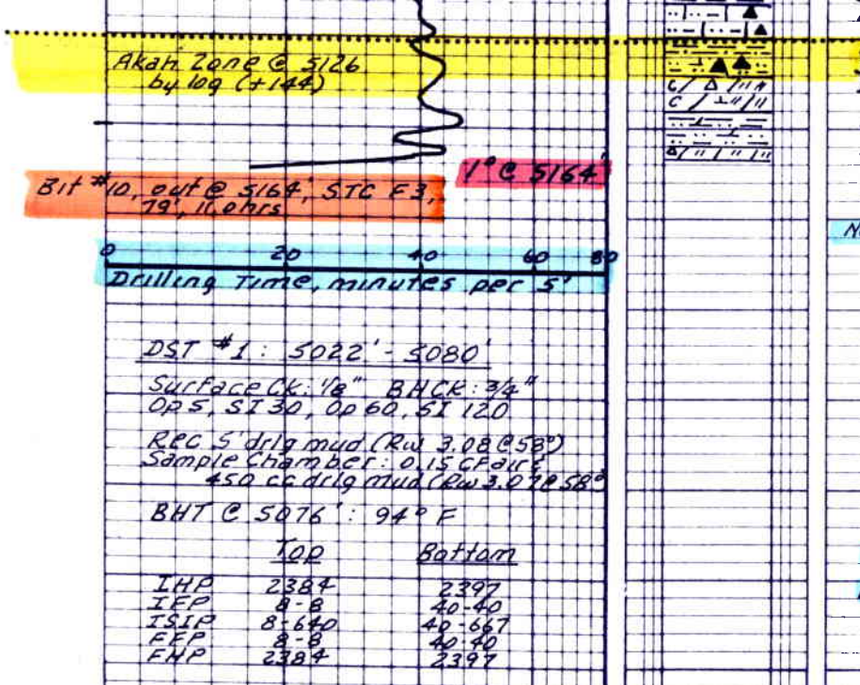
SILTSTN: gr, dk gr-brn, silic, hd, dolic w/ CHT: dk gr to dk gr-brn, opaq.

SILTSTN: brn, dk gr-brn, hd, silic, dolic to calc w/ CHT: dk gr-brn, opaq

Cht: bcmg tan, lt gr-brn, amount decreasing. — 5018' 2/18

Anhy: wh to v lt gr, vfxln to granular, w/occas gr dolic inclusions.
DOL: lt gr, gr, v fxln, spty yell fluor, slow strmg cut
LS: wh, crm, v sdy w/SR, f-mg qtz, spty yell-gold fluor, w/faint slow strmg cut (yell). No stn; No vis ϕ.
SILTSTN: gr, gr-brn, v calc, slanhy
DOL: tan, tan-gr, v fxln, silty, lmy, anhy; rare & spty fluor, AA
LS: tan, tan-gr, v fxln, silty, dolic.
Tr SH: dk gr, blk, carb — 5065' 2/19
DOL: gr, gr-brn, v fxln, v silty, anhy inclus, tan
ANHY: wh, v lt gr, mostly granular, some gr dol inc.

SILTSTN: gr, gr-brn, dolic, finely mic, w/thin DOL stringers AA, silty — 5085' 2/20
LS: wh, v lt tan-gr, v fxln, dolic, silty, grading to v lt gr, v calc SLTSTN; tr lt tan translu CHT
SH: v dk gr, calc.
LS: AA, v silty, w/CHT: v dk brn, opaq.



DST #1: 5022' - 5080'

Surface Ck: 1/8" BHCK: 3/4"
OP 5, SI 30, OP 60, SI 120

Rec 5' drlg mud (Rw 3.08 @ 58°)
Sample Chamber: 0.15 cf air &
450 cc drlg mud (Rw 3.07 @ 58°)

BHT @ 5076': 94° F

	Top	Bottom
IHP	2384	2397
IFP	8-8	40-40
ISIP	8-640	40-667
FFP	8-8	40-40
FHP	2384	2397

LS: AA, w/ dk brn CHT.

SH: v dk gr, blk, sl fiss.
SLTSTN: brn, gr-brn, calc to dolic w/ dk brn CHT.
DOL: v lt-gr, v fxln, chalky, earthy, anhy inclus w/ gr, tan CHT.
SILTSTN: gr, lt gr, dolic

TD 5164; drlg bk @ 5163'. Cl went from 600 ppm to 2500 ppm = SALT. 5164'
TD 5158' by Schlumberger 2/21

NOTE: @ 5085' - 5164: samples contained traces of same lithology as encountered at 5030-50; that had same rare & spotty dull yell-gold fluor & faint slow yell cut; interpreted as cave from above (?).

@ 1820', in Moenkopi fm, small globs of very heavy dark brown oil started over shaker screen & continued to do so sporadically throughout drilling to TD 5164'. Oil wouldn't fluor, but had strong streaming green-yellow cut fluor, leaving a dark brown residue ring on spot tray. Oil would wash out of samples & was not intergranular nor intercrystalline.

Released rig @ 10:00 AM, 2/23/84

P & A, 2/23/84

Plugs:
#1 4964 - 5164' w/ 73 sx
#2 3000 - 3200' w/ 73 sx
#3 1138 - 1338' w/ 73 sx
#4 Surface plug & marker.

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

April 30, 1984

Louisiana Land and Exploration Company
1675 Broadway, Ste. 2100
Denver CO 80202

RE: Well No. Biddlecome Ranch Fed 11-20
API #43-055-30034
Sec. 20, T. 28S, R. 14E.
Wayne County, Utah

Gentlemen:

According to our records, a "Well Completion Report" with attached geiological report dated March 6, 1984 indicates that the following electric logs were run: FDC/CNL 1234' - 5155', GR/N(por) 0' - 1234', DIL/SFL 1234' - 5051', and Cyberlook 4700' - 5042'. As of today's date, this office has not received these logs.

Rule C-5, General Rules and Rgulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copyof the electric and radioactivity logs.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the reutrn. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

Claudia Jones

Claudia Jones
Well Records Specialist

CLJ/cj

cc Dianne R. Nielson, Director
Ronald J. Firth, Associate Director

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MICROFICHE

INSPECTOR: JT DATE ASSIGNED: 890123 DEADLINE: 890323
DATE COMPLETE: 901023

OPERATOR : N6750 : LOUISIANA LAND & EXPLOR CO LEASE: U-49089 PA
WELL NAME: BIDDLECOME RANCH FED #11-20 API : 43-055-30034
S: 20 T: 28.0 S R: 14.0 E
COUNTY: WAYNE FIELD: 001 : WILDCAT

ACTION TYPE: FOLLOW*UP***

ACTION REQUIRED:
CONTACT*BLM*REGARDING*FAN.**********
****
****
****

ACTION TAKEN:
FAN*RECEIVED*BY*BLM*3/24/89.**********
****
****
****

PF KEYS: (1) NO UPDT (9) WELL DATA (12) DELETE (16) EXIT