

to go around
MUD, biological strip log

DAVIS OIL COMPANY

410 - 17TH STREET, SUITE 1400
DENVER, COLORADO 80202
TELEPHONE: 303-623-1000

NEW ORLEANS
HOUSTON
TULSA



May 19, 1981

RECEIVED

MAY 20 1981

DIVISION OF
OIL, GAS & MINING

U.S.G.S.
1745 West & 1700 South
Salt Lake City, Utah 84104

RE: #2 Matthew Federal
C SW NE Sec. 4, T26S, R20E
Grand County, Utah

Gentlemen:

Enclosed please find for your approval, an original and three copies of the Application for Permit to Drill, together with four copies of the Staking Plat covering the drilling of the captioned proposed test.

By carbon copy of this letter to the Utah State Oil & Gas Commission, we are furnishing them with a copy of our application and staking plat.

Your early attention to the approval of said application will be appreciated.

Very truly yours,

DAVIS OIL COMPANY

Michelle

Michelle Fisher
Executive Secretary

/mf
Enclosures

✓ cc: Utah State Oil & Gas Commission

P.S. Designation of Operator forms from ENI Exploration, Interstate Investment, Minors, PIP Energy VII, and Marc Rich will be forthcoming.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 DAVIS OIL COMPANY

3. ADDRESS OF OPERATOR
 410 17th Street, Suite 1400, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface ~~CSWE~~ Sec. 4, T26S, R20E
 At proposed prod. zone ~~SWNE~~ SWNE 1850' FNL & 2081' FEL
~~2210' FEL & 2105' FNL~~

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 10 miles east to Moab, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 1855' south

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 2421' south

19. PROPOSED DEPTH
 7000'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5003' GR Est.

22. APPROX. DATE WORK WILL START*
 Upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5# K-55	STC (NEW) 500'	0-300' 200 sxs. est. (CIRCULATE)
12 1/4"	9 5/8"	36# K-55	STC (NEW)	0-3000' 750 sxs. est.
8 3/4"	5 1/2"	20# N-80	LTC (NEW)	0-7000' 500 sxs. est.

(SEE TEN POINT PROGRAM)

RECEIVED

MAY 26 1981

DIVISION OF
OIL, GAS & MINING

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 7/10/81
BY: M. J. Minder

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 Ed Lafaye TITLE Chief Geologist DATE 5/19/81

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

BYDATE
CHKD. BYDATE

SUBJECT

SHEET NO. OF
JOB NO.

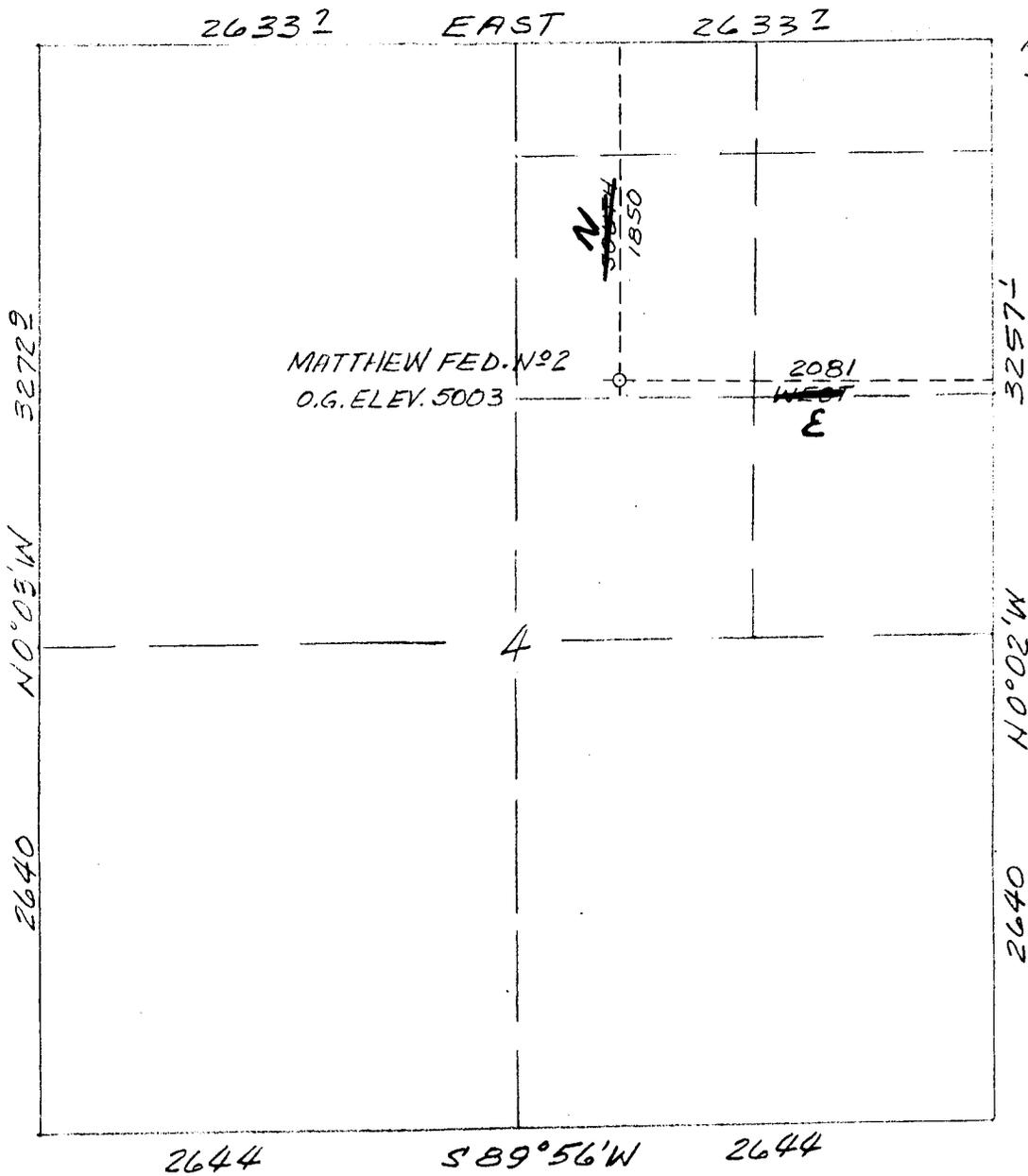


MAY 26 1981

DIVISION OF
OIL, GAS & MINING

R20E

BEARING FROM NORTH LINE N W 1/4 SEC. 3 (WEST)



FD. B.C.
SEC. COR.

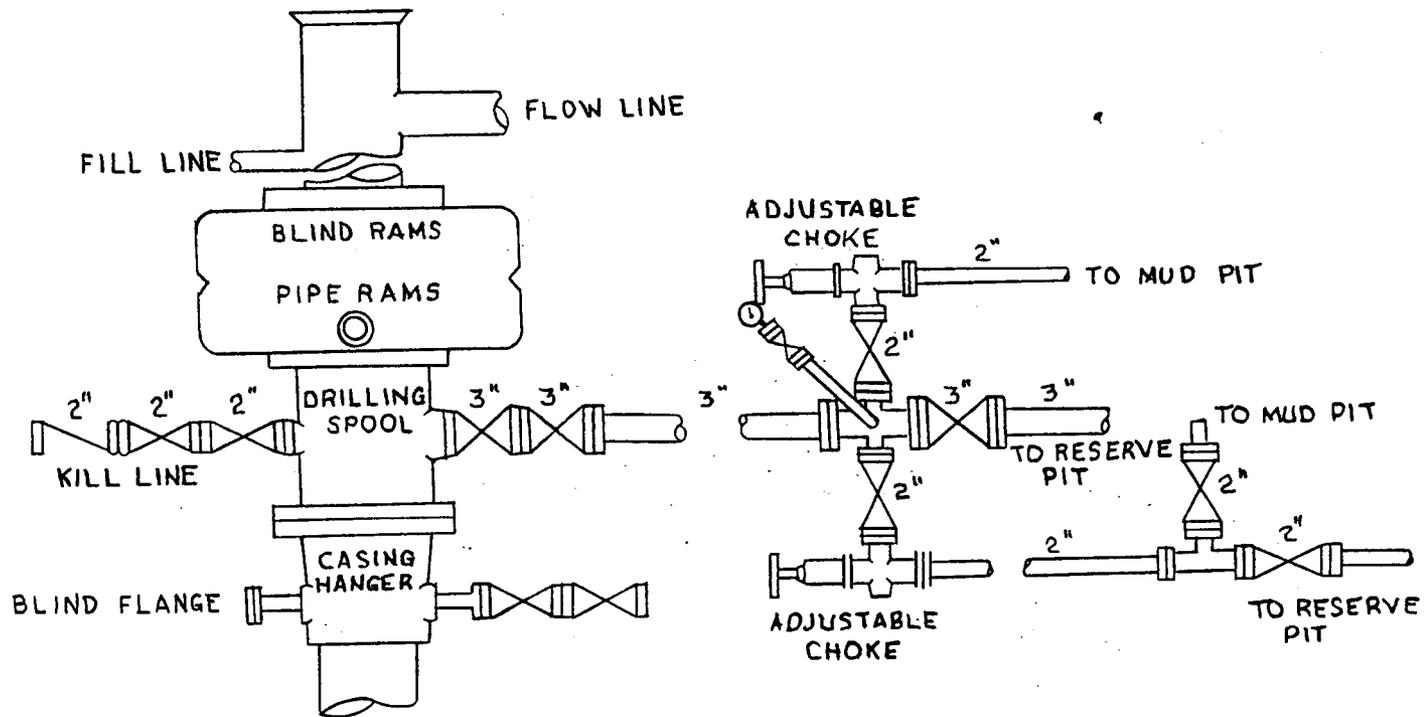
BOUNDARY DATA IS RECORD

WELL LOCATION PLAT - MATTHEW FED. N°2
IN NE 1/4, SEC. 4, T26S, R20E, S.L.B. #M.
GRAND COUNTY, UTAH
FOR: DAVIS OIL CO.

SCALE: 1" = 1000' APRIL 25, 1981
TRANSIT & E.D.M. SURVEY
ELEV. BY VERTICAL ANGLES FROM
U.S.G.S. TOPO. QUAD. "MOAB, UTAH" 1959
(N 1/4 COR., SEC. 3 = 4800)



John E. Keogh
UTAH R. L. S. N° 1963



DAVIS OIL COMPANY

CACTUS DRILLING RIG NO. 5 & 19

BLOW-OUT PREVENTION SYSTEM

12" 900 SERIES SHAFFER TYPE 48

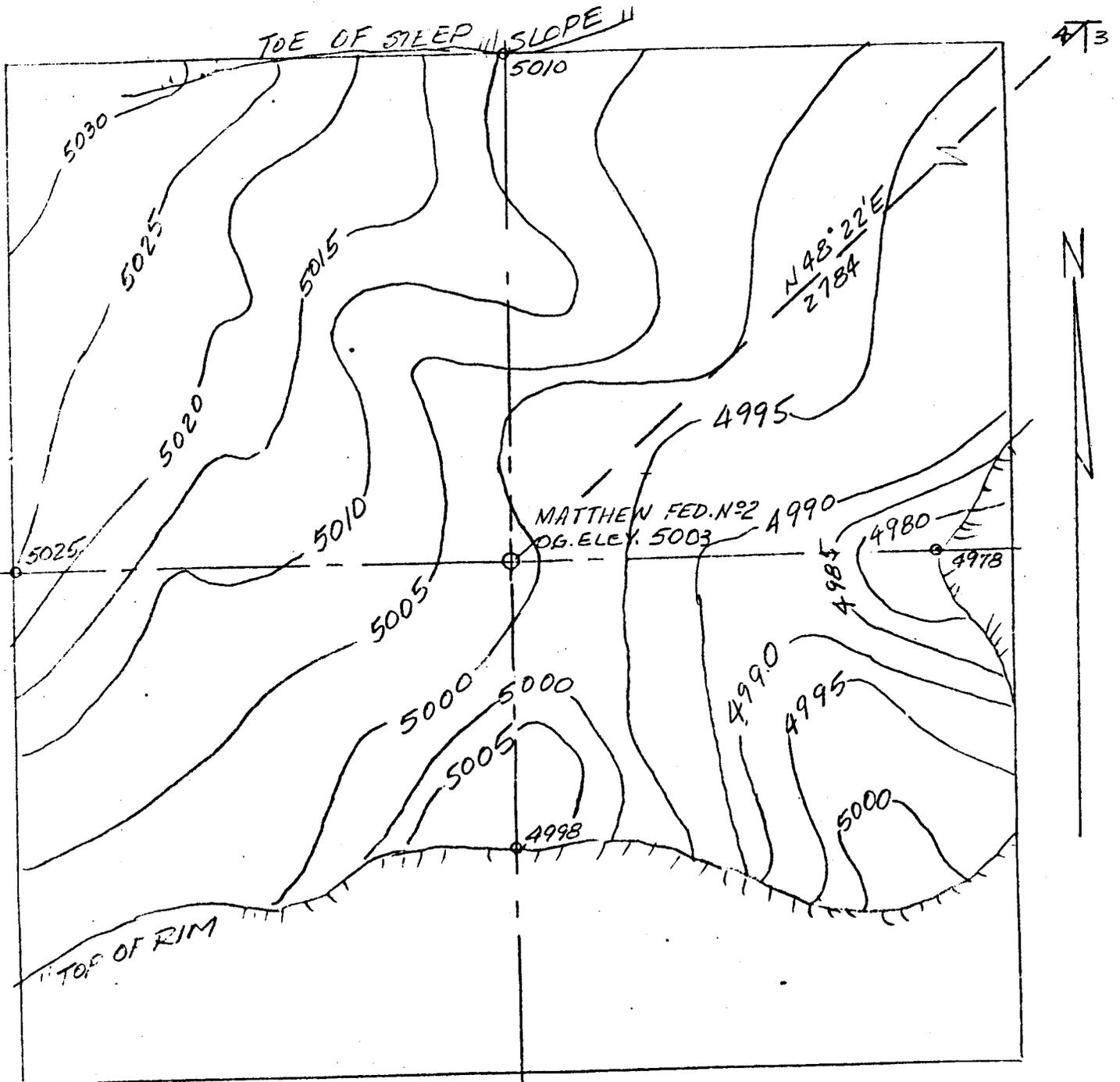
DATE

SUBJECT

SHEET NO. OF

DATE

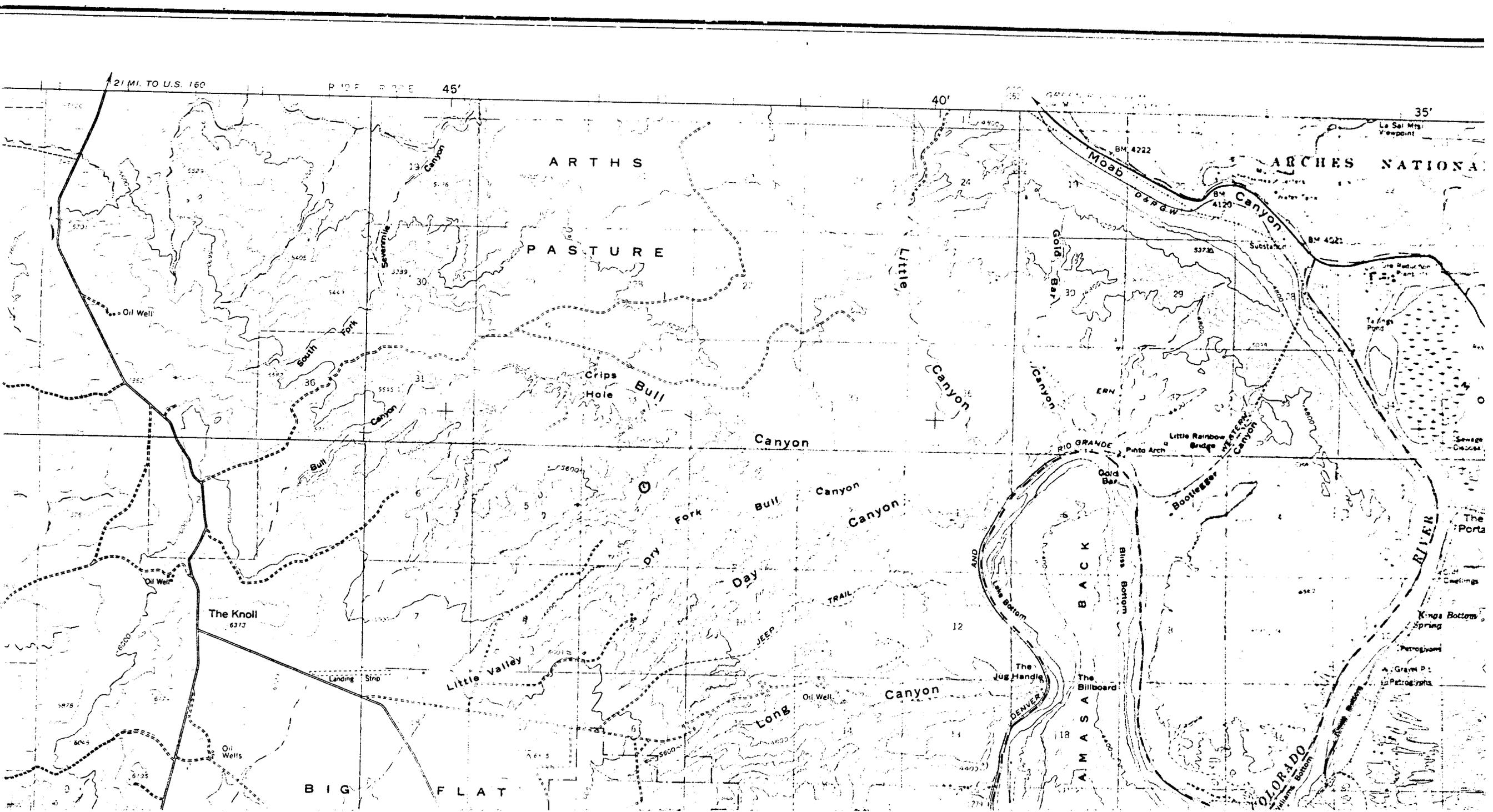
JOB NO.



DRILL SITE TOPOGRAPHY
 MATTHEW FED. NO 2
 SCALE: 1" = 60' ELEV. BY VER. ANGLES
 CONTOUR INTERVAL: 5'
 APRIL 25, 1981
 FOR: DAVIS OIL CO.
 LOCATION IS IN NE 1/4, SEC. 4,
 T26S, R20E, GRAND CO., UTAH

John E. Hoop
 UTAH R.L.S. NO 1963

VICINITY



TEN POINT PROGRAM

1) SURFACE FORMATION: Chinle

2 & 3) ESTIMATED TOPS: (Water, Oil, Gas or Mineral bearing formations)

Chinle	surface	shale
Cutler	400'	brackish water where porous
Hermosa	2300'	salt water where porous
Paradox Salt	3598'	salt water where porous
Paradox Clastic #19	6212'	shale, siltstone, possible Oil & Gas
Cane Creek Zone	6569'	possible oil & gas
Matthew Zone	6680'	possible oil & gas
Base Salt	6981'	salt water where porous
Total Depth	7000'	tite

- 4) CASING PROGRAM:
- 17 1/2", 13 3/8" 54.5# K-55 STC(NEW) 0-300' 200 sxs. est.
 - 12 1/4", 9 5/8" 36# K-55 STC(NEW) 0-3000' 750 sxs. est.
 - 8 3/4", 5 1/2" 20# N-80 LTC(NEW) 0-7000' 500 sxs. est.

- 5) PRESSURE CONTROL EQUIPMENT: (See attached schematic diagram) BOP's and choke manifold will be installed and pressure tested before drilling out under surface casing and then will be checked daily as to mechanical operating condition. Ram type preventors and related pressure control equipment will be pressure tested to rated working pressure of the stack assembly or to 70% of the minimum internal yield pressure of the casing. Annular type preventors will be tested to 50% of their rated working pressure. BOP's will be pressure tested at least once every 30 days.

- 6) MUD PROGRAM:
- 0-300' water spud mud
 - 300-3000' air mist
 - 3000-7000' salt water gel (10-13.5 ppg based on offset of wells)
35-50 vis., 10 cc W.L., PH 9.5.

Sufficient mud materials to maintain mud properties, control lost circulation and to contain blowout will be available at wellsite.

- 7) AUXILLIARY EQUIPMENT:

- 1) Kelly Cock.
- 2) Drill Pipe Float (Except for lost circulation drilling conditions)
- 3) Monitoring of Mud System will be visual unless otherwise specified.
- 4) A sub on the floor with a full opening valve to be stabbed into drill pipe when Kelly is not in the string.

- 8) LOGGING:
- CNL-FDC, DIL, Dipmeter - from base of surface casing to total depth.
 - FIL, sonic, NGT - from 4000' to total depth

CORING:

NONE

8) Continued -

TESTING:

1 DST Cane Creek, 1 DST Clastic #19, 1 DST Matthew Zone

STIMULATION:

Cane Creek Formation - 3000 gallons 28% HCL.

Actual volume of treatment will be dependent upon thickness of pay and evaluation of zone of interest.

9) ABNORMAL PRESSURE: This firm does not anticipate any abnormal pressure of temperatures or any other hazards. This is based on previous geological data from nearby wells.

ESTIMATED BOTTOMHOLE PRESSURE: 4700 PSI.

10) ANTICIPATED STARTING DATE: Within 30 - 45 days from Government approval.

DURATION OF OPERATION: 30-60 Days.

United States Department of the Interior
 Geological Survey
 Oil and Gas Operations
 2000 Administration Building
 1745 West 1700 South
 Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATIONOperator/Project Name Davis Oil Co. Matthew Federal #2Project Type Development Oil TestProject Location 1850'FNL, 2081'FEL, Sec. 4, T26S, R20E, Grand County, UtahDate Project Submitted May 26, 1981FIELD INSPECTIONDate June 16, 1981Field Inspection
ParticipantsRoy A. Moyer - Davis Oil Co.Jim Boulden - Dirt contractorBobby Starrett - DalgarnoRuss Ebel, Diane Huffman - Fort Lewis CollegeElmer Duncan, Mical Walker, Carmen Beightel, Scott Packer,Tom Hare - BLMGlen Doyle - USGS

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

June 24, 1981

Date Prepared

Glen M. Doyle
 Environmental Scientist

I concur

JUN 24 1981

Date

W. Martin FOR E. W. GUYNN
 District Supervisor DISTRICT ENGINEER

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Correspondence (date)	Phone check (date)	Meeting (date)						
516 DM 2.3.A									
1. Public health and safety					1, 2		6	6-16-81	
2. Unique characteristics					1, 2				
3. Environmentally controversial					1, 2				
4. Uncertain and unknown risks						4			
5. Establishes precedents					1, 2				
6. Cumulatively significant					1, 2		6		
7. National Register historic places	1 - 6/24/81								
8. Endangered/threatened species	1-6/24/81								
9. Violate Federal, State, local, tribal law						4			3

Site-specific stipulations attached

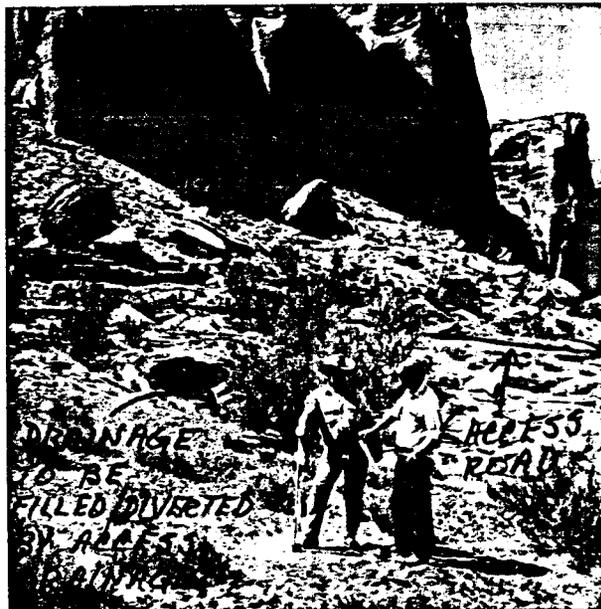
COMMON REFERENCE LIST

NEPA Categorical Exclusion Review

1. SMA Input
2. Reviews, reports, or information received from Geological Survey (CD, GD, WRD, TD).
3. Lease Stipulations/Terms
4. Application to Drill
5. Operator correspondence
6. Field observation
7. Private Rehabilitation Agreement

Site-specific Stipulations

- 1) Rotate the location approximately 25 degrees clockwise to reduce cuts and fills.
- 2) Line the reserve pit with a minimum 10 mil thickness plastic liner underlain by a 6" or thicker sand/soil blanket. A 2"-4" layer of soil/bentonite is to be spread on top of the plastic liner.
- 3) The flare pit and reserve pit will be combined into one pit with the flare pit portion elevated above the reserve pit, in cut, with 6' - 8' banks and a ditch with sufficient fall to drain all fluids into the reserve pit.
- 4) A warning sign will be emplaced at least 100' from the wellsite on the access if recreation traffic interferes with operations.
- 5) A diversion ditch will be constructed on the downhill side of the access that parallels the west/northwest edge of the location and drains to the north.
- 6) The area of the wellsite is under a Federal lease for potash. The attached memo from the Mining Supervisor specifies logs and casing procedures designed to protect this resource.
- 7) Surface casing is to be extended to below the base of the Cutler formation to protect fresh water resources. (500' minimum)



*Davis Matthew Fed. #2
Sec. 4, T26S, R20E, Grand Co.,
Utah*

Environmental
Onsite Time Analysis

EA/CER No. 474-81 Well No. Davis Matthew Fed #2

Location SW 1/4 NE 1/4 Sec. 4 T. 26S R. 20E County Grand State Utah

1. Receive and Review Surface Use Plan 5/29, 6/3 - 45 minutes
2. Plan and Set-up Onsite 6/16
 - a. Contact to arrange (telephone) two 10 min. calls - 1 BLM, 1 Davis
 - b. Recontacts _____
3. Conduct Onsite 6/16
 - a. Travel miles to and time 10 miles - 45 min
 - b. Conduct onsite 1 1/2 hrs
 - c. Prepare/Discuss stipulations 45 min.
 - d. Travel miles return and time _____
4. Prepare Environmental Document ~~_____~~
 - a. Write Document 1/2 hr
 - b. Assemble package and mail 15 minutes
5. Other Time Attributable to this EA/CER 15 minutes total for completing this form
6. Remarks (unusual time consumption) on vacation when received 5/29

Glenn Doyle
Environmental Scientist
Grand Junction
Location



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
Grand Resource Area
P. O. Box M
Moab, Utah 84532

IN REPLY REFER TO

3109
(U-068)
U-44014

JUN 23 1981

Memorandum

To: Oil & Gas Office
USGS Conservation Division
P. O. Box 3768
Grand Junction, CO. 81501

From: Area Manager, Grand

Subject: Davis Oil Company (APD)
Matthew Fed. #2, Lease #U-44014
CSW/NE Section 4, T. 26 S., R. 20 E., SLB&M
Grand County, Utah

On June 16, 1981, a representative from this office met with Glenn Doyle, USGS, and Roy A. Moyer, agent of the Davis Oil Company for an inspection of the above referenced location. Subject to the attached conditions and written approval from USGS, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Davis Oil Company.

Enclosures: (3)
1-Reclamation Procedures
2-Seed Mixture
3-Suggested Colors - Production Facilities

Rec'd 6/24
H.J.

STANDARD STIPULATIONS FOR OIL & GAS EXPLORATION

Contact this office at least 48 hours prior to beginning construction of access road and pad.

Stockpile the surface 12 inches of topsoil in a wind-row on the north west quadrant of the location.

The upper banks (uphill side) of all cuts will be rounded during construction of the access road and pad.

Notify the BLM District Archaeologist if cultural material from sub-surface deposits is exposed during the operation.

The trash cage will be at the location and fenced with fine mesh wire during drilling operations.

The "blooey" line will be centered and directed into the pit.

If production is obtained, the access road will be upgraded to BLM specifications for long-term roads as outlined in the surface use standards section of the "Oil and Gas" pamphlet (joint BLM, USGS and USFS publication).

If production is obtained, all production facilities will be painted. (See enclosed suggested colors - for facilities).

Rehabilitation of the site and access road will be accomplished in accordance with the enclosed restoration procedures.

Production facilities and pipeline route are approved on this location under lease rights.

As agreed upon at the Pre-drill field examination -

Access -

- 1) The approximate 2.7 miles of existing road from the NW/NE Section 2, west to Davis Well, Matthew #2 in CSW/NE Section 4, T. 26 S., R. 20 E. will be improved as needed.
- 2) Low water crossings will be installed in where the road crosses the Bull Canyon drainage.
- 3) The road will be kept out of the bottom of the drainage when possible.
- 4) The old reservoir dike in the bottom of Bull Canyon will be re-built, and the road routed around to the west where it was originally.

Location -

1) Rotate the pad 25 degrees clockwise to put the pit(s) in the cut portion and keep them out of a drainage.

2) A ditch will be constructed along the northern side of the pad to control any water run off.

UMD →
6/24

3) ~~The bottom two thirds of the pit(s) will be lined with bentonite. The bentonite layer will be at least three (3) inches thick.~~ *Line the pits with 10 mil plastic underlain with a 6" or thicker sand/soil blanket.*
Pit(s) will be 120 feet long X 100 feet wide X 8 feet deep.
Pit(s) dikes off from the pad and along the edge of the pad will be 1.5 feet - 2.0 feet higher than the pad level, constructed in 8 inch soil lifts and machinery compacted.

4) Pit(s) will be fenced on 3 sides prior to drilling and on the 4th side prior to rig removal. Fence will be 5 strands of barbed wire, until pit(s) are dry.

5) This is a heavy use recreation area. The above ground facilities will be painted an appropriate color (refer to enclosed colors for production facilities) immediately after such items are established on the ground.

RECLAMATION PROCEDURES IN GRAND RESOURCE AREA

1. Disk or rip pads and access roads.
 - a. Overlap passes in order to insure complete treatment.
2. Contour pads and access roads.
 - a. Lay berms into centers.
 - b. Use cut material for fill areas.
 - c. Lay stockpiled surface soil over top of pads and spread evenly.
 - d. On highly erosive soils, it may be more beneficial to grade slopes to reduce steepness.
 - e. Do not smooth pads out, leave a roughened surface. On steeper slopes and slopes with clayey soils scarify or serrate the ground in order to increase water infiltration and reduce erosion.
3. Water bar roads where required by this office.

* 2 percent	Grade	-	200 ft. intervals
2-4 percent	Grade	-	100 ft. intervals
4-5 percent	Grade	-	75 ft. intervals
5 percent	Grade	-	50 ft. intervals

* Actual spacing may vary according to soil stability. Lighter textured soils will require more frequent water bars. When natural drainage ways are present, water bars are to be constructed to make maximum use of them. Plan operations so that natural drainage ways do not become blocked.
4. Seed roads and pads in the fall (Oct. through mid-Dec.).

SEED MIXTURE

<u>Species</u>		<u>lbs/ac</u>
<u>Grasses</u>		
Oryzopsis hymenoides	Indian rice grass	1
Hilaria jamesii	Curley grass	1
<u>Forbs</u>		
Sphaeralcea coccinnia	Globemallow	1
<u>Shrubs</u>		
Purshia tridentata	Bitterbrush	1
Ephedra nevadensis	Brigham tea	1
Grayia spinosa	Spiny hopsage	<u>1</u>
	Total	6



United States Department of the Interior

IN REPLY REFER TO

BUREAU OF LAND MANAGEMENT

SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

Cisco Desert and Flats below the Bookcliffs:

Dynasty Green	(Sears)
Tumbleweed	(Pratt & Lambert)
Desert Tan	-----
Sage Gray	(Pratt & Lambert)

Bookcliffs Region:

Sage Gray	(Pratt & Lambert)
Sea Life	(Pratt & Lambert)
Dynasty Green	(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

ADDITIONAL STIPULATIONS FOR PRODUCTION FACILITIES

Your Application for Permit to Drill also included a submittal for production facilities. These production facilities are approved for the lessee and his designated operator under Section 1 of the Oil and Gas Lease with the following conditions:

- (1) The oil and gas measurement facilities must be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy are to be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. Please provide this office with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports are to be submitted to the Salt Lake City District Oil and Gas Supervisor. Royalty payments will be made on all production volume as determined by the meter measurements or the tank measurements. All measurement facilities must conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.
- (2) Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs must be housed and/or fenced.
- (3) All disturbed areas not required for operations will be rehabilitated.
- (4) All produced liquids must be contained including the dehydrator vent/condensate line effluent. All production pits must be fenced.
- (5) The well activity, the well status and the date the well is placed on production must be reported on Lessee's Monthly Report of Operations, Form 9-329.
- (6) All off-lease storage, off-lease measurement, or commingling on lease or off-lease must have written approval.
- (7) All product lines entering and leaving hydrocarbon storage tanks must be locked/sealed.
- (8) You are reminded of the requirements for handling, storing, or disposing of water produced from oil and gas wells under NTL-2B.
- (9) All materials, trash, junk, debris, etc. not required for production must be removed from the well site and production facility site at the completion of these operations.
- (10) A copy of the Gas Sales Contract will be provided to this office and the Royalty Accounting Department as directed.
- (11) Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS Oil and Gas Brochure entitled, "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.
- (12) "Sundry Notice and Reports on Wells" (form 9-331) will be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained verbally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternations of facilities, including roads, gathering lines, batteries, measurement facilities, etc., will require the filing of a suitable plan and prior approval by the survey.

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-44014

OPERATOR: Davis Oil Co.

WELL NO. 2

LOCATION: C SW 1/4 NE 1/4 sec. 4, T. 26S, R. 20E, SLM

Grand County, Utah

1. Stratigraphy:

Chinle surface
Cutler 400'
Hermosa 2300'
Paradox
Ismay
Salt 3600'
Cane Creek 6570'
TD 7000'

2. Fresh Water:

Fresh water may be present in Cutler sandstones.

3. Leasable Minerals:

NaCl: Paradox
Potash: Paradox
Oil/Gas: Cane Creek

4. Additional Logs Needed: Adequate

5. Potential Geologic Hazards: None expected

6. References and Remarks:

Signature: Gregory W. Wood Date: 6-2-81

** FILE NOTATIONS **

DATE: June 11, 1981

OPERATOR: Davis Oil Company

WELL NO: Matthew Federal #2

Location: Sec. C SW 4th 6 T. 26 S R. 30 E County: Grand

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-019-30823

CHECKED BY:

Petroleum Engineer: M. J. Minder 7/19/81 oil well only
Hold for topographic exception and oil well designation of Matthew Fed #1
per call (B. HANSON 7/9/81)

Director: _____

Administrative Aide: as per C-3, Topo request needed, to
close to other gas well refer to plat sheet

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage
within a 660' radius of proposed site

Lease Designation FED

Plotted on Map

Approval Letter Written

Hot Line

P.I.

DAVIS OIL COMPAN

410 - 17TH STREET, SUITE 1400
DENVER, COLORADO 80202
TELEPHONE: 303-623-1000

NEW ORLEANS
HOUSTON
TULSA



July 9, 1981

Mr. Mike Minder
State of Utah, Division of
Oil, Gas & Mining
Dept. of Natural Resources
1588 W. North Temple
Salt Lake City, Utah 84116

RE: Exception to Rule C-3
#2 Matthew Federal well
NW NE Sec. 4, T26S, R20E
2081' FEL, 1850' FNL
Grand County, Utah

Dear Mr. Minder:

With reference to drilling of the captioned test, please let this serve as our request for an exception to Rule C-3. We are unable to move the location north away from the common boundary of SW NE/4 and NW NE/4 Section 4 because of the walls of a steep canyon. The extreme topography is documented by our location survey plat and a xerox of the Moab 15' topo map, both enclosed.

Also enclosed, find a drillstem test report and a completion history for the Matthew Federal No. 1 that will document the oil production from the Cane Creek Zone of the Paradox Formation. We are still trying to complete this well.

In addition, Davis Oil owns a 100% oil and gas lease on all acreage within a 660-foot radius of the proposed unorthodox location of the Matthew Federal No. 2 well.

Very truly yours,

DAVIS OIL COMPANY

A handwritten signature in black ink that reads "Michelle". The signature is written in a cursive, flowing style.

Michelle Fisher
Executive Secretary

WBH:mf
Enclosures

July 13, 1981

Davis Oil Company
410-17th Street,
Suite #1400
Denver, Colo. 80202

RE: Well No. Mathew Federal #2,
Sec. 4, T. 26S, R. 20E,
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. However, this may be completed as an oil well only.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30823.

Sincerely,

DIVISION OF OIL, GAS, AND MINING


Michael T. Minder
Petroleum Engineer

MTM/db
CC: USS

GS

NOTICE OF SPUD

D

*Spud
oil*

RECEIVED

JUL 29 1981

DIVISION OF
OIL, GAS & MINING

Caller: *John Swanson*

Phone: _____

Well Number: *McDon FEA #2*

Location: *C SW-NE 4-26.5-20E*

County: *Grand* State: *W.V.*

Lease Number: *U-19014*

Lease Expiration Date: _____

Unit Name (If Applicable): *McDon FEA #2*

Date & Time Spudded: *7/24/81* *9:00 P.M.*

Dry Hole Spudder/Rotary: _____

Details of Spud (Hole, Casing, Cement, etc.) *17 1/2"*

Rotary Rig Name & Number: *Spud Separation #7*

Approximate Date Rotary Moves In: _____

FOLLOW WITH SUNDRY NOTICE

Call Received By: *Vicki*

Date: *7/27/81*

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL & GAS CONSERVATION
 1588 WEST NORTH TEMPLE
 SALT LAKE CITY, UTAH 84116
 533-5771

State Lease No. _____
 Federal Lease No. 43-044014
 Indian Lease No. _____
 Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Grand FIELD/LEASE Wildcat/Matthew Fed. #2

The following is a correct report of operations and production (including drilling and producing wells) for the month of:

JULY, 1981

Agent's Address 410 17th Street
Suite 1400
Denver, CO 80202
 Phone No. (303) 623-1000

Company Davis Oil Company
 Signed P. M. Singleton
 Title Production Services Manager

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<u>4 SW NE</u>	<u>26S</u>	<u>20E</u>	<u>2</u>	<u>-0-</u>	<u>-0-</u>	<u>-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>7-9-81 THRU 7-18-81 - BUILDING LOCATION AND ROAD. 7-19-81 DRLD. RAT & MOUSE HOLES. 7-20-81 - BLASTING COLLAR AND RESERVE PIT.</u>

GAS: (MCF)
 Sold NONE
 Flared/Vented ↓
 Used On/Off Lease ↓

OIL or CONDENSATE: (To be reported in Barrels)
 On hand at beginning of month NONE
 Produced during month _____
 Sold during month _____
 Unavoidably lost _____
 Reason: _____
 On hand at end of month ↓

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED**

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL & GAS CONSERVATION
 1588 WEST NORTH TEMPLE
 SALT LAKE CITY, UTAH 84116
 533-5771

State Lease No. _____
 Federal Lease No. U-044014
 Indian Lease No. _____
 Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Grand FIELD/LEASE Wildcat/Matthew Fed. #2

The following is a correct report of operations and production (including drilling and producing wells) for the month of:

AUGUST, 19 81

Agent's Address 410 17th Street
Suite 1400
Denver, CO 80202
 Phone No. (303) 623-1000

Company Davis Oil Company
 Signed P.M. Reighton
 Title Production Services Manager

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW NE	26S	20E	2	0	—	—	—	—	—	<p><u>7-21-81-MIRU.</u></p> <p><u>7-24-81 SPUDDED WELL.</u></p> <p><u>7-28-81 - RAN</u> 13 3/8", 54.5# K55 CSG. & SET @ 541' KB. CMTD. w/525 SKS.</p> <p><u>8-14-81 RAN</u> 84 JTS. 95/8" 36# K55. SET @ 3573' KB, CMTD. w/1100 SKS.</p> <p><u>8-20-81 DRLG.</u> TO 4910' - PARADOX</p>

GAS: (MCF)
 Sold NONE
 Flared/Vented ✓
 Used On/Off Lease ✓

OIL or CONDENSATE: (To be reported in Barrels)
 On hand at beginning of month NONE
 Produced during month _____
 Sold during month _____
 Unavoidably lost _____
 Reason: _____
 On hand at end of month _____

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED**

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL & GAS CONSERVATION
 1588 WEST NORTH TEMPLE
 SALT LAKE CITY, UTAH 84116
 533-5771

State Lease No. _____
 Federal Lease No. 43-044014
 Indian Lease No. _____
 Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Grand FIELD/LEASE Wildcat/Matthew Fed. #2

The following is a correct report of operations and production (including drilling and producing wells) for the month of:

SEPTEMBER, 19 81

Agent's Address 410 17th Street
Suite 1400
Denver, CO 80202
 Phone No. (303) 623-1000

Company Davis Oil Company
 Signed P.M. Seligman
 Title Production Services Manager

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW NE	26S	20E	2	0	0	—	0	0	0	<u>8-21-81</u> DRLG. TO 5210' - PARADISE. <u>8-29-81</u> - DRLG. TO 7128' - CANE CREEK <u>9-31-81</u> D.S.T.#1 7120-47', T.D. @ 7253'KB. RAN 175 JTS. 5 1/2", 20# N-80; SET @ 7253'. CMTD. w/ 695.5XS. WOCT. THRU <u>9-20-81.</u>

GAS: (MCF)
 Sold NONE
 Flared/Vented ✓
 Used On/Off Lease ✓

OIL or CONDENSATE: (To be reported in Barrels)
 On hand at beginning of month NONE
 Produced during month _____
 Sold during month _____
 Unavoidably lost _____
 Reason: _____
 On hand at end of month _____

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED**

DAVIS OIL COMPAN

410 - 17TH STREET, SUITE 1400
DENVER, COLORADO 80202
TELEPHONE: 303-623-1000



NEW ORLEANS
HOUSTON
TULSA

October 9, 1981

USGS
745 West 1700 South
Administration Bldg., Room 2000
Salt Lake City, Utah 84104

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

CONFIDENTIAL

RE: #2 Matthew Federal TIGHT HOLE
SWNE Sec. 4, T26S, R20E
Grand County, Utah

Gentlemen:

Enclosed are your requested number of copies of the geological report
on the above captioned well for your files.

CONFIDENTIAL

CONFIDENTIAL

Very truly yours,

DAVIS OIL COMPANY

Stacey

Stacey L. Williams
Geological Clerk

/sw
Enclosures

RECEIVED

OCT 15 1981

DIVISION OF
OIL, GAS & MINING



A GEOSCIENCE EXTENSION OF XCO

CONFIDENTIAL

910 Sixteenth Street, #522, Denver, Colorado 80202 (303) 893-8138

CONFIDENTIAL

DAVIS OIL

MATHEW FEDERAL #2

C SW NE SECTION 4 - T26S - R20E

GRAND COUNTY, UTAH

CONFIDENTIAL

RECEIVED
OCT 15 1977

DIVISION OF
OIL, GAS & MINING

GEOLOGIST: John Dietz
GX Consultants

TABLE OF CONTENTS

	<u>PAGE</u>
Resume.	1
Summary and Conclusions	3
Formation Tops.	4
Chronology.	5
Mud Record.	6
Bit Record.	7
Deviation Surveys	8
Drill Stem Test #1.	9
Log Strips.	11
Lithology	13
Core Lithology.	22

RESUME

OPERATOR: Davis Oil

WELL NAME & NUMBER: Mathew Federal #2

LOCATION: C SW NE Sec 4, T26S, R20E

COUNTY: Grand

STATE: Utah

SPUD DATE: July 24, 1981

COMPLETION DATE (TD): August 31, 1981

ELEVATIONS: 5006 GL 5019 KB

TOTAL DEPTH: 7240 LOGS 7253 DRLR

CONTRACTOR: Arapahoe

RIG: #7

TYPE RIG: National T-45

PUMPS: #1 National C-250
#2 National C-150

GEOLOGIST: John Dietz

ENGINEER: John Heller, George Hull

TOOL PUSHER: Ernie Penrod

TYPE DRILLING MUD: Salt-based gel

MUD COMPANY: IMCO

MUD ENGINEER: Randy Williams

HOLE SIZES: 17 1/2" surface-541 12 1/4" 541-3593 8 3/4" 3593-7253

CASING: 13 3/8" set at 541'; 9 5/8" set at 3593'; 5 1/2" to TD

MUD LOGGING BY: Analex - Doug Mehan

TYPE UNIT: 1 Man Unit w/Hotwire and Chromatograph

CORE INTERVALS: 7120 - 7147

DST DEPTHS: 7010 - 7147

DST COMPANY: Johnston-Macco

RESUME (cont'd)

ELECTRIC LOGS BY:	Schlumberger
TYPE LOGS RUN WITH DEPTHS:	DLL-MSFL w/GR: 3574 - TD CNL-FDC w/GR: 3574 - TD NGT: 3574 - 7208 Dipmeter, FIL: 3574 - TD
LOGGING ENGINEER:	Mark Puckett
BOTTOM FORMATION:	Paradox Salt
WELL STATUS:	Casing run for possible production.

SUMMARY AND CONCLUSIONS

Davis Oil Mathew Federal #2 was drilled to a total depth of 7253' (driller), 7240' (Schlumberger) in the Paradox Salt. The primary zones of interest were the Upper and Lower Cane Creek, within the Paradox Salt. Mathew Federal #2 offsets to the north Mathew Federal #1, and offsets to the east Skyline #1.

Sample shows along with gas increases occurred in non-salt intervals #12, #19, and #20; however, no shows were considered significant enough for immediate testing. There were indications of hydrocarbons in several other non-salt intervals. Mathew Federal #2 did not encounter problems with salt-water flows, which have occurred in some surrounding wells.

The Upper Cane Creek was penetrated at a depth of 6998' (driller). The best sample show was found from 7015'- 7025', consisting of a brn-blk dolomite, v arg, with good yel-gn strmg cut, no flor, tite. Another significant show was found from 7055'- 7065', in a brn-blk dolomite, v arg.

The Lower Cane Creek was encountered at a depth of 7119' (driller). The section from 7120' to 7147' was cored, with full recovery. Inspection of the core found the best zone from 7122- $\frac{1}{2}$ '- 7123- $\frac{1}{2}$ '. This was a blk-dk brn limestone, v arg, good petro-odor, tite, no flor, slow good strmg cut, with some fractures which were halite-filled. DST #1 was conducted from 7010'- 7147', testing both Upper and Lower Cane Creek simultaneously. There was no gas to surface, with a recovery of 110' of slightly gas-cut/very slightly oil-cut mud. The sample chamber contained oil cu ft gas, 1850 cc mud.

E-logs indicated several possible hydrocarbon producing zones. Production casing was run for further treatment and testing.

FORMATION TOPS

Davis Oil
Mathew Federal #2
SW NE 4-265-20E
Grand Co., Utah
KB: 5019

Davis Oil
Mathew Federal #1
SW SE 4-265-20E
Grand Co., Utah
KB: 5003

Davis Oil
Skyline #1
SW NE 5-265-20E
Grand Co., Utah
KB: 5808

Paradox Salt	3850	+1169	3530	+1473	4066	+1742
Non-Salt Interval #1	4127	+ 892	3710	+1292	4304	+1504
Non-Salt Interval #2	4347	+ 678	3908	+1095	4496	+1312
Non-Salt Interval #3	4573	+ 446	4140	+ 863	4713	+1095
Non-Salt Interval #4	4727	+ 292	4291	+ 712	4868	+ 940
Non-Salt Interval #5	5033	- 14	4615	+ 388	5194	+ 614
Non-Salt Interval #6	5144	- 125	4728	+ 275	5308	+ 500
Non-Salt Interval #7	5220	- 201	4810	+ 193	5385	+ 423
Non-Salt Interval #8	5403	- 384	4992	+ 11	5561	+ 247
Non-Salt Interval #9	5481	- 462	5070	- 67	5640	+ 168
Non-Salt Interval #10	5590	- 571	5184	- 181	5762	+ 46
Non-Salt Interval #11	5683	- 664	5278	- 275	5849	- 41
Non-Salt Interval #12	5864	- 845	5456	- 453	6042	- 234
Non-Salt Interval #13	5975	- 956	5556	- 553	6160	- 352
Non-Salt Interval #14	6029	-1010	5610	- 607	6218	- 410
Non-Salt Interval #15	6170	-1151	5748	- 745	6379	- 571
Non-Salt Interval #16	6216	-1197	5792	- 789	6430	- 622
Non-Salt Interval #17	6256	-1237	5828	- 825	6476	- 668
Non-Salt Interval #18	6385	-1366	5938	- 935	6650	- 842
Non-Salt Interval #19	6616	-1597	6138	-1135	6945	-1137
Non-Salt Interval #20	6762	-1743	6284	-1281	7131	-1323
Cane Creek	6988	-1969	6500	-1497	7442	-1634
Lower Cane Creek	7109	-2090	6610	-1607	7539	-1731

MATHEW FEDERAL #2

CHRONOLOGY

<u>1981 Date</u>	<u>7 A.M. Depth</u>	<u>W.O.B.</u>	<u>R.P.M.</u>	<u>P.P.</u>	<u>Activity</u>
Aug 15	3593	25	65	1000	Drill out from intermediate casing, work on standpipe.
Aug 16	3658	20	70	1000	Drilling
Aug 17	3784	20	70	1000	Drilling
Aug 18	4160	20	70	1000	Drilling
Aug 19	4610	20	70	1000	Drilling, trip for NB #7, drilling.
Aug 20	4906	20	70	1000	Drilling, circulate to condition mud (pumps aired up), drilling.
Aug 21	5212	20	70	1000	Drilling
Aug 22	5424	20	70	1000	Drilling, replace standpipe, drilling.
Aug 23	5695	20	70	1000	Drilling
Aug 24	5987	20	70	1000	Drilling
Aug 25	6324	20	70	1000	Drilling
Aug 26	6682	20	70	1000	Drilling
Aug 27	7004	20	70	1000	Drilling
Aug 28	7076	20	70	1000	Drilling, condition mud for core, trip out for core (strap pipe-no correction), cut drilling line.
Aug 29	7129	20	60	1000	Trip in hole, coring 7120-7147, trip out with core, trip in hole to circulate for DST.
Aug 30	7147	--	--	----	Trip out for DST, conduct DST #1, trip in hole.
Aug 31	7221	25/30	70	1000	Drilling, TD @7253, circulate to condition hole for logs, trip out for logs logging.
Sept 1	7253				Logging

MUD RECORD

MUDDER UP AT 3593

ON Aug 15, 1981

1981 DATE	DEPTH	WT.	F. VIS.	P. VIS.	YIELD	GEL STRNT	PH	FILTR	CK.	ALKA.	SALT	CHLO	CALCIUM	GYP / SAND	% WTR.	CUM. COST
8/16	3652	10.0	44	20	10	7/10	11.0	124	8/32	1.9/1.4	—	163,000	2800	Tr	95.2	#5067
8/17	3781	11.9	44	13	23	15/20	11.5	118	8/32	1.2/1.6	—	170,000	320	Tr	94.8	19,203
8/18	4150	11.0	36	10	10	5/8	9.0	124	8/32	.2/5	—	185,000	280	Tr	94.0	23,102
8/19	4598	10.6	40	10	12	5/7	11.0	120	2/32	1.0/1.4	—	185,000	280	Tr	94.6	24,912
8/20	4884	10.6	37	10	4	3/5	11.5	120	8/32	1.3/1.6	—	185,000	80	Tr	94.4	27,494
8/21	5194	10.7	32	5	3	3/4	11.0	110	8/32	.85/1.2	—	162,000	440	.5	94.2	30,163
8/22	5420	10.4	38	14	5	3/4	11.6	14	2/32	.6/1.4	—	162,000	320	.5	94.7	37,319
8/23	5680	10.3	37	9	4	2/3	11.8	14	2/32	.4/95	—	155,000	320	.5	94.8	40,670
8/24	5984	10.3	35	10	3	3/4	9.0	18	2/32	.01/1.2	—	155,000	1080	.5	94.8	41,952
8/25	6308	10.6	40	15	9	7/16	10.9	26	3/32	.2/4	—	160,000	400	.5	94.0	47,755
8/26	6740	10.8	39	15	2	1/3	10.5	28	3/32	.1/15	—	160,000	Tr	Tr	92.5	51,091
8/27	7002	11.9	42	22	2	1/3	11.0	18	3/32	.35/55	—	175,000	100	Tr	84.5	63,140
8/27	7033	12.6	42	20	3	1/3	11.4	17	3/32	.4/6	—	175,000	80	Tr	80	—
8/28	7074	12.8	42	21	4	1/3	11.7	16	3/32	.55/7	—	180,000	120	Tr	78.5	77,571
8/28	7120	12.8	84	55	40	2/4	11.8	11.6	3/32	.7/95	—	180,000	Tr	Tr	78.5	—
8/29	7125	12.6	67	53	26	2/3	11.5	9.8	2/32	.3/5	—	180,000	Tr	Tr	82	87,639
8/30	No report	—	—	DST	in progress	—	—	—	—	—	—	—	—	—	—	—
8/31	7147	12.7	77	57	36	2/5	11.0	9.6	2/32	.3/5	—	180,000	Tr	Tr	80	89,303

DEVIATION SURVEYS

<u>Depth</u>	<u>Deviation</u>
4177	$\frac{1}{2}^{\circ}$
4377	$\frac{3}{4}^{\circ}$
4579	$\frac{3}{4}^{\circ}$
4783	$1 \frac{3}{4}^{\circ}$
5060	$2 \frac{1}{4}^{\circ}$
6458	$2 \frac{1}{2}^{\circ}$
7147	$2 \frac{1}{2}^{\circ}$

DRILL STEM TEST #1

Formation: Upper and Lower Cane Creek

Interval: 7010 to 7147

Reason for Test: Show in samples, experience with Cane Creek in area

Type Test: Conventional bottom-hole

Testing Company: Johnston-Macco

Tester: Dennis Rosenberg

Water Cushion: None

IF 15 Minutes: 2 oz. blow initially; 7 oz. blow @ 7 min; 8½ oz. @ 15 min.

ISI 90 Minutes: No blow

FF 90 Minutes: 1 oz. @ 3 min.; 3 oz. @ 7 min.; 5 oz. @ 13 min.; 4 oz. @ 27 min.; 3 oz. @ 37 min., 2½ oz. @ 42 min; 1 3/4 oz @ 47 min.; 1 oz. @ 52 min; 1 oz. @ 62 min; ½ oz. @ 67 min; ¼ oz. @ 77 min; ¼ oz. @ 90 min.

FSI 240 Minutes: No blow

Recovery: 110' slightly gas cut/very slightly oil cut drilling mud

Bottom Hole Sampler: Pressure: 75 lbs.
Recovery: .1 cu ft gas
1850 cc mud

Resistivity Data: Drill Pipe Recovery: .15 @ 68° F

Top:
Middle:
Bottom:

Sampler: .12 @ 66° F 140,000 PPM C1

Mud Pit: .15 @ 76° F 175,000 PPM C1

Pressures: Top Chart Bottom Chart

IH: 4763	IH: 4754
IF: 103 to 115	IF: 98 to 110
ISI: 537 to	ISI: 521
FF: 154 to 179	FF: 160 to 185
FSI: 562	FSI: 558
FH: 4763	FH: 4754

DRILL STEM TEST #1 (Cont.)

Top Choke: ---

Bottom Choke: 11/16"

Bottom Hole Temperature: 122°F

Additional Remarks:

Upper
Cane Creek
7000
6988
(-1969)

INV 100 cu. ft. →

7100
Lower
Cane Creek
7109
(-2090)

INV 10 cu. ft. →

← Caliper

30

20

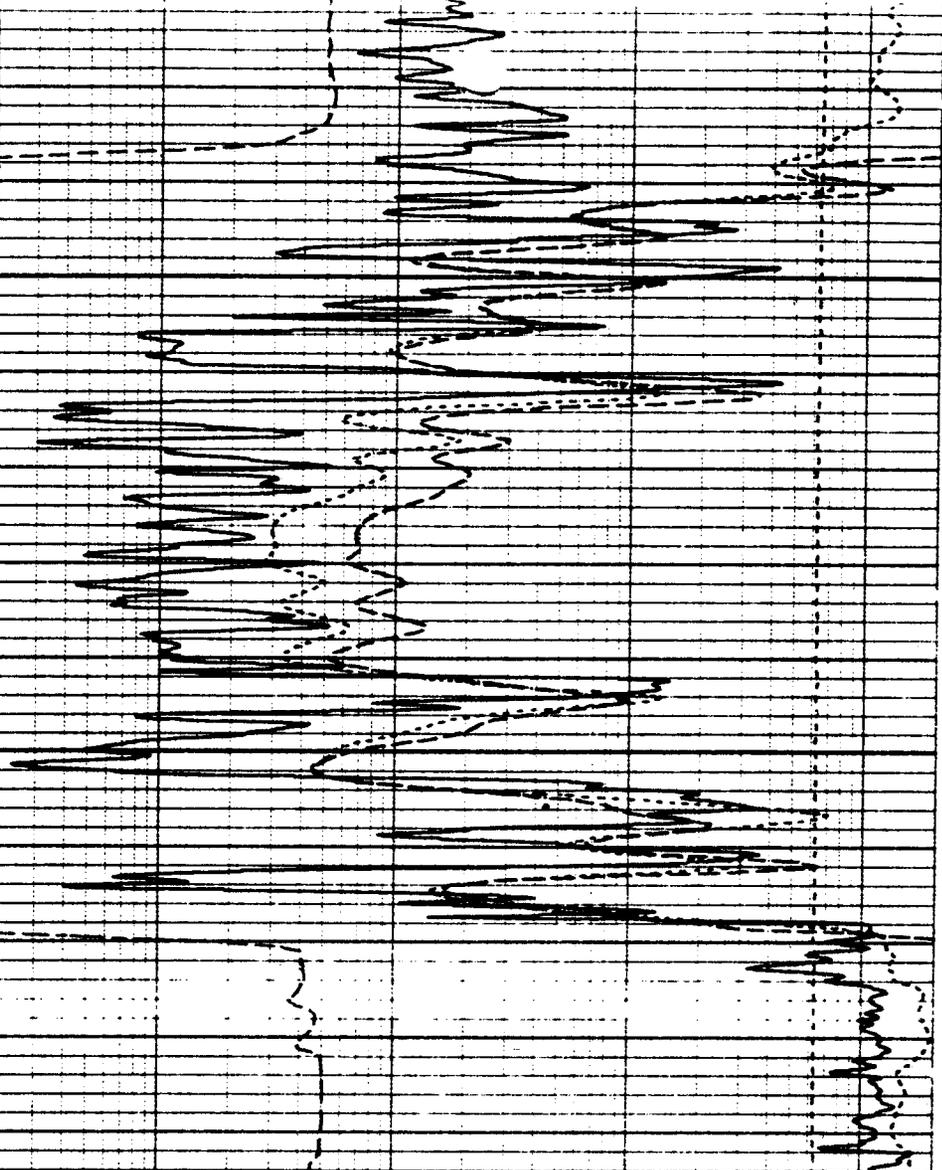
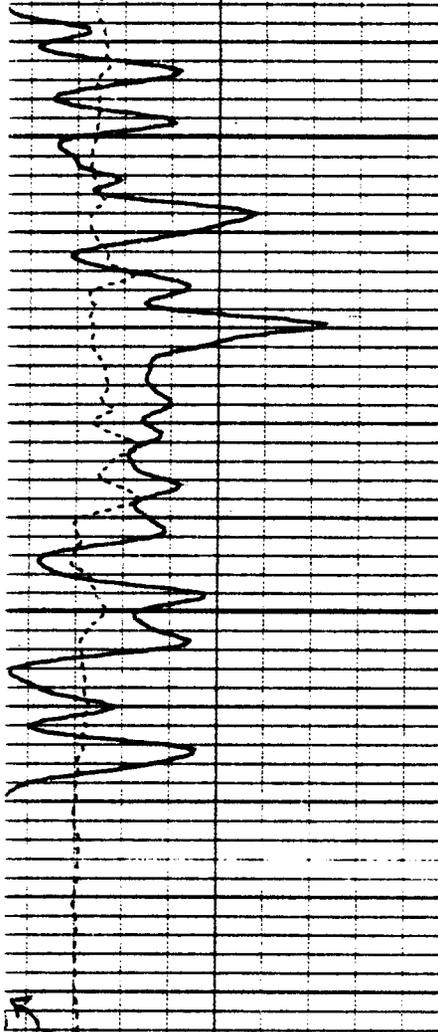
10

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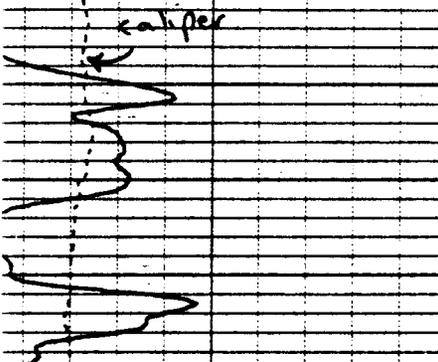
ϕ_D →

ϕ_N →

Upper
Cane Creek
6988
(-1969)
7000



7100



Lower
Cane
Creek
7109
(-2090)

1.5 ft →
LLD ←

1.0

10

100

← 0.2

Height →

LITHOLOGY

- 3600 - 3610 Limestone, lt-dk gy, brn, mod hd, crpxl-micxl, some sandy, mod-v arg, much microsugrosic, p-fr vis Ø, NSFOC.
- 3610 - 3640 Limestone, tan-brn, lt-dk gy, mod hd, crpxl-micxl, much microsugrosic, some sandy, mod-v arg, p-fr vis Ø, NSFOC.
- 3640 - 3650 DOLOMITE, dk gy, dk brn, mod hd, c-pxl-micxl, much microsugrosic, mod-arg, occ cherty, p vis Ø, NSFOC.
- 3650 - 3670 DOLOMITE/LIMESTONE, dk gy, brn, mod hd, c-pxl-micxl, much microsugrosic, mod-v arg, occ cherty, p vis Ø, NSFOC.
- 3670 - 3690 (40%) DOLOMITE, as above.
(40%) LIMESTONE, lt-m brn, mod hd, micxl-fine gran, sl-mod arg, fr vis Ø, NSFOC.
(20%) ANHYDRITE, wh, tan, mod hd, xln, sl calc.
- 3690 - 3700 (80%) LIMESTONE, lt-dk brn, micxl, dol in pt w/some grdg to dolomite, mod-v arg, p-fr vis Ø, NSFOC.
(20%) ANHYDRITE, as above.
- 3700 - 3710 (70%) ANHYDRITE, wh, sft-mod hd, xln.
(30%) LIMESTONE, gen as above.
- 3710 - 3730 (80%) ANHYDRITE, tan, wh, mod hd, xln, sl calc.
(20%) LIMESTONE, brn, gy, micxl-fine gran, dol w/some grdg to dolomite, sl-mod arg, p-fair vis Ø, NSFOC.
- 3730 - 3740 LIMESTONE, dk brn, gy-brn, crpxl-micxl, sl-m arg, dol w/much grdg to dolomite, gen p vis Ø, NSFOC.
- 3740 - 3770 LIMESTONE, gen as above; trace dead oil stain in 3750 - 3770, no flor or cut.
- 3770 - 3790 LIMESTONE, lt-dk brn, gy brn, mod hd, gen micxl, much microsugrosic, sl-mod arg, dol, p vis Ø, NSFOC.
- 3790 - 3800 LIMESTONE, dk brn-blk, mod hd, v arg grdg to shale, dol, NSFOC.
- 3800 - 3810 DOLOMITE, brn, mod hd, sl-mod arg, crpxl, some oil stn, no oil flor, slow fair-good strmg cut, p vis Ø.
- 3810 - 3820 DOLOMITE, gy, cream, mod hd, crpxl, occ limy, p vis Ø, mod-v arg, NSFOC.

3820 - 3840 DOLOMITE, tan, cream, gy, sft-mod hd, micxl-v f gran, occ limy, fr vis Ø, mod arg, NSFOC.

3840 - 3860 DOLOMITE, gen as above, incr gy, some v arg.

3860 - 4130 SALT, wh, clear, xln.
Non-Salt Interval #1

4130 - 4140 ANHY, wh-brn, mod hd, xln, dirty, NSFOC.

4140 - 4150 LIMESTONE, tan-brn, mod hd, micxl, microsucrosic texture, sl-mod arg, dol, p vis Ø, NSFOC.

4150 - 4160 LIMESTONE, gen as above, micritic, some v arg.

4160 - 4170 No sample

4170 - 4180 SHALE, dk brn-gy, blk, mod hd, calc, no flor or cut.

4180 - 4190 (40%) SHALE, as above.
(60%) LIMESTONE, cream-gy, tan, micxl-fine gran, dol, mod-v arg, fr-good vis Ø, NSFOC.

4190 - 4200 LIMESTONE, gen as above.

4200 - 4210 (30%) LIMESTONE, no change; (40%) ANHYDRITE, wh-lt brn, xln, mod hd, sl calc, no show.
(30%) DOLOMITE, cream - tan, brn, micxl-fine gran, mod arg, fr vis Ø, NSFOC.

4210 - 4220 (50%) DOLOMITE, as above.
(50%) ANHYDRITE

4220 - 4230 Pred SALT, wh-clear, xln.
(10%) ANHYDRITE, wh-tan, xln, mod hd.

4230 - 4350 SALT, wh-clear, xln.
Non-Salt Interval #2

4350 - 4360 (80%) ANHYDRITE, wh-lt brn, mod hd, xln, no show.
(20%) DOLOMITE, tan-lt brn, mod hd, micxl, mod arg, fr vis Ø, NSFOC.

4360 - 4370 DOLOMITE, as above.

4370 - 4380 SHALE, tan-brn, sft, amorphous, calc, no show.

4380 - 4410 SHALE, dkbrn-blk, sft, blk, organic, calc, p-fr milky cut.
(10%) DOLOMITE, tan-ltbrn, mod hd, micxl, mod arg, p-fr vis Ø, NSFOC.

4410 - 4420 (70%) DOLOMITE, tan-ltbrn, micxl-v f gran, mod arg, fr vis Ø, NSFOC.

4410 - 4420 (30%) SHALE, as on previous page.

4420 - 4430 (90%) ANHYDRITE, wh-tan, mod hd, xln, sl calc, no show.
(10%) DOLOMITE, as above.

4430 - 4440 Pred SALT, wh tr DOLOMITE and ANHYDRITE, as above.

4440 - 4580 SALT, wh-clear, xln.

Non-Salt Interval #3

4580 - 4590 (20%) ANHYDRITE, wh-tan, xln, sft-mod hd, no show.
(80%) DOLOMITE, tan-mbrn, occ dk brn, micxl, microsucrosic texture, mod-v arg, p-fr vis Ø, NSFOC.

4590 - 4600 (80%) DOLOMITE, as above.
(10%) ANHYDRITE, as above.
(10%) SHALE, blk, blk, sl calc

4600 - 4610 DOLOMITE, lt-dk brn, dk gy, mod hd micxl-v f gran, microsucrosic texture, dirty, p-fr vis Ø, NSFOC.

4610 - 4620 No sample

4620 - 4730 SALT, wh-clear, xln.

Non-Salt Interval #4

4730 - 4740 DOLOMITE, lt-mbrn, micxl, mod-v arg, p vis Ø, NSFOC.

4740 - 4750 (90%) DOLOMITE, as above.
(10%) SHALE, blk, mod hd, blk, sl calc, no cut.

4750 - 4760 (70%) DOLOMITE, no change.
(20%) SHALE, as above.
(10%) ANHY, wh-tan, sft-mod hd, xln, no show.

4760 - 4770 (80%) DOLOMITE, lt-dk brn, micxl, mod-v arg, p vis Ø, NSFOC.
(20%) LIMESTONE, lt-dk gy, dk brn, mod hd, micxl-v f gran, microsucrosic, mod arg, NSFOC.

4770 - 4780 Poor sample quality
(80%) DOLOMITE, as above.
(20%) LIMESTONE, no change.

4780 - 4790 (70%) DOLOMITE, lt-dk brn, micxl, mod-v arg, p vis Ø, NSFOC.

(20%) LIMESTONE, gen as above.
(10%) SHALE, blk, dk brn, blk, sl calc, no cut.

- 4790 - 4800 (70%) DOLOMITE, mgy, tan-lt brn, micxl, sl-mod arg, gen p vis \emptyset , some anhyic, NSFOC.
(20%) ANHYDRITE, wh-tan, gy, mod hd, c-pxl, no show.
- 4800 - 5040 (10%) SHALE, blk, dk gy, blk, sl calc.
SALT, wh-clear, xln.
- Non-Salt Interval #5
- 5040 - 5050 ANHYDRITE, wh-bf, sft, crpxl, no show.
DOLOMITE, lt-dk brn, crpxl-micxl, slarg, gen p vis por, NSFOC.
- 5050 - 5070 DOLOMITE, gen as above, some gray.
- 5070 - 5150 SALT, wh-clear, xln.
- Non-Salt Interval #6
- 5150 - 5160 (80%) DOLOMITE, m-dk brn, pred crpxl w/occ micxl, mod-v arg, p vis \emptyset , no flor, tr oil stn, some fair milky cut, rr p slow yel strmg cut.
(20%) SHALE, blk, blk, sl calc, occ p milky cut.
- 5160 - 5230 SALT, wh-clear, xln.
- Non-Salt Interval #7
- 5230 - 5240 (40%) SHALE, blk, brn, blk, calc, occ grd to dolomite.
(40%) DOLOMITE, gy, brn, crpxl, mod-v arg, gen p vis \emptyset , occ sl milky cut.
(20%) ANHYDRITE, wh, sft-mod hd, xln.
- 5240 - 5250 (60%) DOLOMITE, tan-lt brn, occ gy, microsucrosic, mod arg, gen p vis \emptyset , NSFOC.
(40%) LIMESTONE, dk gy, dk brn, mod hd, crpxln-micxl, mod-v arg, p vis \emptyset , NSFOC.
- 5250 - 5260 (80%) LIMESTONE, cream-tan, m-dk gy, micxl-v f gran, much microsucrosic, mod-v arg, p-fair vis \emptyset , NSFOC.
(20%) DOLOMITE, gen as above, some cream.
- 5260 - 5270 (50%) DOLOMITE, wh-tan, brn, gy, crpxln-micxl, some anhyic, mod arg, gen p vis \emptyset , occ limy grd to LS, NSFOC.
(30%) ANHYDRITE, wh, gy, sft-mod hd, crpxl, sl calc, no show.
(20%) SHALE, blk, blk, sl calc, no show.
- 5270 - 5410 SALT, wh-clear, xln.
- Non-Salt Interval #8
- 5410 - 5420 (60%) DOLOMITE, cream, brn, mot brn & wh, micxl, microsucrosic, dirty, arg, NSFOC.
(40%) ANHYDRITE, wh, sft, c-pxl, sl calc.

- 5420 - 5430 DOLOMITE, pred tan, some wh & brn, mod hd, micxl, microsucrosic, dirty, p-fair vis Ø, NSFOC.
- 5430 - 5440 DOLOMITE, tan-dk brn, occ s&p from dd oil stn, micxl-v f gran, mod arg, some oil stn, some fair milky cut, occ p slow yel strmg cut, fair vis Ø, some yel flor, most w/no flor.
- 5440 - 5450 (20%) DOLOMITE, as above, some anhyic.
(80%) ANHYDRITE, wh, gy-tan, sft-mod hd, some dol, no show.
- 5450 - 5490 SALT, wh-clear, xln.
Non-Salt Interval #9
- 5490 - 5520 Samples all SALT, wh-clear, xln.
- 5520 - 5600 SALT, wh-clear, xln.
Non-Salt Interval #10
- 5600 - 5610 DOLOMITE, gy, s&p, mot brn & wh, mod hd, micxl-v f gran, occ limy, dirty, some dd oil stn, no flor or cut.
- 5610 - 5620 (70%) DOLOMITE, tan-brn, gy, micxl-v f gran, some microsucrosic, occ limy, mod-v arg, p-fr vis Ø, no flor, tr p ring cut.
(30%) SHALE, blk-dk brn, blk, organic, sl calc.
- 5620 - 5630 (60%) DOLOMITE, brn, gy, micxl, occ limy, mod-v arg, some anhyic, p vis Ø, occ sl vug Ø, tr p ring cut.
(40%) ANHYDRITE, wh, sft, crpxl, no show.
- 5630 - 5690 SALT, wh-clear, xln.
Non-Salt Interval #11
- 5690 - 5700 (90%) DOLOMITE, lt-m brn, crpxln-vf gran, sl-v arg, gen p-fr vis Ø, NSFOC.
(10%) ANHYDRITE, wh-tan, sft, crpxl.
- 5700 - 5710 (70%) SHALE, blk, dk brn, blk, sft-mod hd, sl calc, some petro-odor, fair yel-gn milky cut, no flor.
(30%) DOLOMITE, as above.
- 5710 - 5730 Pred Salt and Sylvite.
DOLOMITE, brn, mot gy-wh, mod hd, micxl, sl arg, NSFOC.
- 5730 - 5740 (50%) DOLOMITE, tan-brn, mod hd, micxl, dirty, occ dd oil stn, no flor, no cut.
(50%) SHALE, blk, blk, mod-hd, sl petro-odor, fair-good milky cut, no flor.
- 5740 - 5760 Samples pred SALT, wh-clear, xln, w/some ANHYDRITE, wh, sft, crpxl.

5760 - 5870 SALT, wh-clear, xln.
Non-Salt Interval #12

5870 - 5880 (90%) SHALE, blk, blk, some petro-odor, no flor, good yel-gn strmg cut.
(10%) DOLOMITE, ltbrn, crpxl, p vis Ø, NSFOC.

5880 - 5900 (80%) SHALE, blk, mot wh-blk, blk, mod hd, some anhyic, w/fair milky cut, occ p-fair strmg cut, no flor, sl calc.
(10%) ANHYDRITE, wh, sft, crpxl.
(10%) DOLOMITE, brn, crpxl, dirty, p vis Ø, no flor, fr yel milky cut, occ slow poor-fair strmg cut, tr oil stn, occ sl vug Ø.

5900 - 5910 (70%) SHALE, as above.
(20%) ANHYDRITE, wh, sft, crpxl.
(10%) DOLOMITE, brn, crpxl, p vis Ø, some dd oil stn, occ fr milky cut, most w/no cut, no flor.

5910 - 5980 SALT, wh-clear, xln.
Non-Salt Interval #13

5980 - 5990 (20%) ANHYDRITE, wh-tan, sft-mod hd, crpxl, no show.
(40%) SHALE, blk, mod hd, blk, some p-fair milky cut.
(40%) DOLOMITE, brn, micxl, much microsucrosic, gen p vis Ø, occ brn oil stn, some slow p-fair milky cut, no flor.

5990 - 6000 Pred SALT, w/SHALE and DOLOMITE as above.

6000 - 6030 SALT, wh-clear, xln.
Non-Salt Interval #14

6030 - 6040 (70%) SHALE, blk-dk brn, blk, v sl calc, slow fair milky cut, some petro-odor, no flor.
(20%) DOLOMITE, tan-brn, mod hd, micxl, mod-v arg, tr sl oil stn, no flor, occ p milky cut, rr pyritic.
(10%) ANHYDRITE, wh, mot brn & wh, c-pxl-micxl, sl calc, no show.

6040 - 6050 (40%) SHALE, as above.
(40%) DOLOMITE, as above.
(20%) ANHYDRITE, as above.

6050 - 6060 Poor sample, pred SALT and SYLVITE, w/tr SHALE, as above.

6060 - 6180 SALT, wh-clear, xln.
Non-Salt Interval #15

- 6180 - 6190 (30%) ANHYDRITE, wh, sft, crpxl, no show.
(40%) DOLOMITE, cream-brn, mod hd, micxl, mod-v arg, p vis Ø, NSFOC.
(30%) SHALE, blk, blk, sl calc, p-fair milky cut.
- 6190 - 6220 SALT, wh-clear, xln.
Non-Salt Interval #16
- 6220 - 6230 (60%) DOLOMITE, lt-dk brn, crm-tan, micxl, dirty, occ brn oil stn, fair vis Ø, rr good vug Ø, no flor, some p-fair milky cut, occ slow p yel strmg cut.
(40%) SHALE, blk, blk, mod hd, sl calc, occ p milky cut.
- 6230 - 6260 SALT, wh-clear, xln.
Non-Salt Interval #17
- 6260 - 6270 (40%) SHALE, blk, dk brn, blk, sft-mod hd, some petro-odor, occ fair yel strmg cut, most with fair milky cut.
(60%) DOLOMITE, lt-dk brn, cream-tan, micxl, some microsucrosic, mod-v arg, occ brn & blk oil stn, occ p-fair milky cut, rr p slow strmg cut, no flor.
- 6270 - 6390 SALT, wh-clear, xln.
Non-Salt Interval #18
- 6390 - 6410 (10%) ANHYDRITE, wh, sft, crpxl.
(50%) DOLOMITE, m-dk brn, cream-tan, micxl w/occ v f gran, much microsucrosic, mod-v arg, some oil stn, gen fair vis Ø, no flor, some p milky cut.
(40%) SHALE, blk, blk, non-calc, no flor or cut.
- 6410 - 6620 SALT, wh-clear, xln.
Non-Salt Interval #19
- 6620 - 6630 (50%) LIMESTONE/DOLOMITE, brn, blk, cream, micxl, mod-v arg, some blk oil stn, no flor, occ p ring cut, gen p vis Ø.
(40%) SHALE, blk, dk brn, blk, non calc, p-fair milky cut, slight petro-odor, tr pyritic.
(10%) ANHYDRITE, wh, sft, crpxl.
- 6630 - 6650 (50%) LIMESTONE/DOLOMITE, gen as above, occ fair Ø, some p-fair milky cut, no flor.
(40%) SHALE, as above.
(10%) ANHYDRITE, wh, sft, crpxl.

- 6650 - 6660 (50%) LIMESTONE/DOLOMITE, brn, blk, cream, micxl-v f gran, mod-v arg, p-fair vis Ø, some oil stn, no flor, p ring cut, occ p milky cut.
(30%) SHALE, as above, occ fair strmg cut.
(20%) ANHYDRITE, wh, sft, crpxl.
- 6660 - 6770 SALT, wh-clear, xln.

Non-Salt Interval #20
- 6770 - 6780 (70%) ANHYDRITE, wh, sft, crpxl.
(30%) DOLOMITE, lt-dk brn, blk, micxl-v f gran, some oil stn, no flor, occ weak milky cut, p-fair vis Ø.

Tr DOLOMITE w/good Ø, heavy blk oil stn, yel oil flor, fair strmg yel cut.
- 6780 - 6995 SALT, wh-clear, xln.

Upper Cane Creek
- 6995 - 7000 (70%) LIMESTONE/DOLOMITE, m-dk brn, pred mixcl w/ occ crpxl, mod-v arg, occ microsucrosic, gen p vis Ø, occ pinhole Ø, no flor, some blk oil stn, p-fair milky cut, occ good milky cut.
(30%) SHALE, blk, blk, mod calc, fair-good milky yel cut, slight petro-odor.
- 7000 - 7005 (70%) SHALE, blk, dk brn, blk, mod calc, occ fair slow strmg cut, most w/p-fair slow milky cut, no flor.
(20%) DOLOMITE, gen as above, no flor, occ p-fair milky cut.
(10%) ANHYDRITE, wh, sft, crpxl.
- 7005 - 7010 (90%) DOLOMITE, brn, sft-mod hd, micxl-crpxl, v arg grd to dol shale, occ p pinhole Ø, gen p vis Ø, no flor, no stn or cut.
(10%) SHALE, gen as above.
- 7010 - 7015 (50%) DOLOMITE, brn, gy, crpxl-micxl, mod hd, some blk oil stn, some blk stn on frac planes, mod arg, no flor, some fair milky cut.
(10%) SHALE, no change.
(40%) ANHYDRITE, wh, sft, crpxl.
- 7015 - 7020 (70%) DOLOMITE, brn, blk, mod hd, pred crpxl w/occ micxl, mod-v arg grd to dol shale, p vis Ø, some blk oil stn, no flor, tr pyritic, good yel-gn strmg cut.
(30%) SHALE, blk, blk, sl calc, some petro-odor, some fair slow milky yel cut.
- 7020 - 7025 (90%) LIMESTONE/DOLOMITE, brn, blk, gy, pred crpxl w/occ micxl, much v arg, p vis Ø, tr pyritic, no flor, most w/fair milky yel cut, occ fair-good strmg cut.

- 7025 - 7030 Limestone/Dolomite, pred blk, m-dk brn, crpxl-micxl, sft-mod hd, v arg grdg to shale, p vis Ø, no flor, some p slow milky cut.
- 7030 - 7035 Limestone, gy, brn, tan, occ blk, c-pxl-micxl, sft-mod hd, much v arg, some anhyic, p vis Ø, rr lt brn stn, no flor, -fair ring cut.
- 7035 - 7045 LS/DOL, brn, tan sft-mod hd, pred micxl w/some crpxl, much v arg, some anhyic, p vis Ø, rr lt brn stn, no flor, p-fair ring cut.
- 7045 - 7050 LS/DOL, dk brn, cream-tan, crpxl-micxl, mod hd, v arg, occ anhyic, p vis Ø, no oil stn, no flor, p slow yel milky cut.
- 7050 - 7055 (30%) LS, gen as above.
(70%) ANHYDRITE, wh, sft-mod hd, crpxl.
- 7055 - 7060 LS/DOL, gy, dk brn-blk, sft-mod hd, pred micxl w/some crpxl, much v arg, some anhyic, p vis por, no flor, no oil stn, some w/slow fair-good strmg yel cut.
- 7060 - 7065 DOLOMITE, blk, dk brn, mod hd, crpxl, v arg grdg to dol shale, p vis Ø, no flor, some slow fair yel-gn strmg cut, most w/fair-good ring cut only.
- 7065 - 7070 (80%) DOLOMITE, lt-m brn, mot brn & wh, blk, mod hd, pred micxl w/some crpxl, no flor, p-fr vis Ø, occ brn oil stn, occ p milky cut, most w/no cut.
(20%) ANHYDRITE, wh, tan, sft-mod hd, crpxl-micxl.
- 7070 - 7075 DOLOMITE, m-dk brn, occ blk, crpxl-micxl, v arg, p vis Ø, no flor, some blk oil stn or frac planes, most w/fair ring cut.
- 7075 - 7080 (20%) DOLOMITE, as above.
(80%) ANHYDRITE, wh-cream sft, crpxl.
- 7080 - 7120 SALT, wh-clear, xln.

CORE LITHOLOGY

Lower Cane Creek

- 7120 - 7120½ DOLOMITE, dkbrn, micxl-v f gran, mod hd, v arg, p-fair vis Ø, no stn, no flor or cut.
- 7120½ - 7121 DOLOMITE, gen as above, some fair-good milky cut, limy grdg to limestone.
- 7121 - 7122½ DOLOMITE/LIMESTONE, dk brn, crpxln-micxl, mod hd, v arg, no stn, no flor, no cut, occ frac planes.
- 7122½ - 7123 LIMESTONE, blk-dkbrn, some dol, mod hd, v arg grdg to dol shale, good petro-odor, no flor, slow good yel-gn strmg cut; occ excel cut.
- 7123 - 7123½ LIMESTONE, blk-dk brn, mod hd, fissile, v arg, good petro-odor, p vis Ø, no flor, fair-- good strmg cut, some fractures ranging up to 1mm maximum width, with halite filling almost all fractures.
- 7123½ - 7125 DOLOMITE, blk, dense, v arg, anhydritic, micxl-fine gran, p vis Ø, some blk carb residue, no odor, no flor, no cut, w/large anhydrite inclusions, fine granular, white.
- 7125 - 7133 DOLOMITE, gy-blk, dk brn, mod hd, v arg, gen massive, sl fis, crpxl-micxl, p vis Ø, no visible fractures, no stain or flor, rare p weak yel ring cut, no odor.
- 7133 - 7133½ DOLOMITE, as above, with thin anhydrite stringers, tr p weak yel ring cut.
- 7133½ - 7134 DOLOMITE, gy-blk, mod hd-hd, pred crpxl, massive, some small halite xtals, v arg, NSFOC.
- 7134 - 7147 SALT, interbedded clear-wh, tan, xln, w/gy crpxl, mod hd, occ sylvitic.
- Resume drilling @ 7147
- 7147 - 7253 SALT, wh-clear, xln.

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL & GAS CONSERVATION
 1588 WEST NORTH TEMPLE
 SALT LAKE CITY, UTAH 84116
 533-5771

State Lease No. _____
 Federal Lease No. 43-044014
 Indian Lease No. _____
 Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Grand FIELD/LEASE Wildcat/Matthew Fed. #2

The following is a correct report of operations and production (including drilling and producing wells) for the month of:

OCTOBER, 19 81

Agent's Address 410 17th Street
Suite 1400
Denver, CO 80202
 Phone No. (303) 623-1000

Company Davis Oil Company
 Signed P.M. Leighton
 Title Production Services Manager

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
4 SW NE	26S	20E	2	0	0	—	0	0	0	9-21-81 THRU 10-12-81 W.O.C.T. 10-13-81 MOVED RIG ONTO LOCATION. 10-17-81 PERF. CANE CREEK FORMA- TION. 7110-7121' JSDF. 10-20-81 SWABBING.

RECEIVED
 DEC 10 1981
 DIVISION OF
 OIL, GAS & MINING

GAS: (MCF)
 Sold NDNE
 Flared/Vented _____
 Used On/Off Lease _____

OIL or CONDENSATE: (To be reported in Barrels)
 On hand at beginning of month NDNE
 Produced during month _____
 Sold during month _____
 Unavoidably lost _____
 Reason: _____
 On hand at end of month _____

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. THIS REPORT MUST BE FILED

DAVIS OIL COMPANY 410 - 17TH STREET, SUITE 1400
DENVER, COLORADO 80202
TELEPHONE: 303-623-1000

NEW ORLEANS
HOUSTON
TULSA

November 6, 1981

USGS
745 West 1700 South
Administration Bldg., Room 2000
Salt Lake City, Utah 84104

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

RE: #2 Matthew Federal-TIGHT HOLE
SWNE Sec. 4, T26S, R20E
Grand County, Utah

Gentlemen:

Please be advised that the above captioned well is being carried at our company as a tight hole. We would appreciate it if you would keep this well confidential in your files as well. Thank you for your cooperation.

Very truly yours,

DAVIS OIL COMPANY

Stacey

Stacey L. Williams
Geological Clerk

/sw



P

NOV 09 1981

DEPARTMENT OF
OIL, GAS & MINERAL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
533-5771

State Lease No. _____
Federal Lease No. 43-044014
Indian Lease No. _____
Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Grand FIELD/LEASE Wildcat/Matthew Fed. #2

The following is a correct report of operations and production (including drilling and producing wells) for the month of:

NOVEMBER, 1981

Agent's Address 410 17th Street
Suite 1400
Denver, CO 80202
Phone No. (303) 623-1000

Company Davis Oil Company
Signed P.M. [Signature]
Title Production Services Manager

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW NE	26S	20E	2	-0-	-0-	-0-	-0-	-0-	-0-	<u>10-21-81 SWABBING.</u> <u>10-27-81 THRU</u> <u>10-31-81 SWABBING.</u> <u>11-4-81 PERF. CANE CREEK FORMATION-7007-7050'; 27 HOLES.</u> <u>11-9-81 FRACED WELL WITH MAXI 0-74 GELLED OIL. 11-17-81 THRU</u> <u>11-20-81 SWABBING.</u>

GAS: (MCF)
Sold NDNE
Flared/Vented _____
Used On/Off Lease ↓

OIL or CONDENSATE: (To be reported in Barrels)
On hand at beginning of month NDNE
Produced during month _____
Sold during month _____
Unavoidably lost _____
Reason: _____
On hand at end of month ↓

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED**

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

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.6.

7

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

U-44014

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

MATTHEW FEDERAL

9. WELL NO.

#2

10. FIELD AND POOL, OR WILDCAT

Development

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

Sec. 4, T26S, R20E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

14. PERMIT NO.

43-109-30823

RECEIVED
DEC 28 1981
DIVISION OF
OIL, GAS & MINING

15. ELEVATIONS (DF, REB, RT, GR, ETC.)*

5003' GL 5015' KB

16. ELEV. CASINGHEAD

17. TOTAL DEPTH, MD & TVD

7253'

18. PLUG, BACK T.D., MD & TVD

6900'

19. IF MULTIPLE COMPL., HOW MANY*

0

20. INTERVALS DRILLED BY

→ 0-7253'

21. ROTARY TOOLS

22. CABLE TOOLS

23. WAS DIRECTIONAL SURVEY MADE

NO

24. TYPE ELECTRIC AND OTHER LOGS RUN

~~CBL, CNL, FDC, DIL~~ GR-CCL

25. WAS WELL CORED

YES

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5#	541'	17 1/2"	Class "B"	NONE
9 5/8"	36#	3593'	12 1/4"	Howco Light	NONE
5 1/2"	20#	7253'	8 3/4"		NONE

27. LINER RECORD

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

28. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

29. PERFORATION RECORD (Interval, size and number)

Interval	Size	Number of Holes
7110'-7121'	.43	12 holes
7007'-7050'	.43	27 holes
6618'-6644'	.43	44 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7110'-7121'	70,000 gals. Maxi-0-74 oil
7007'-7050'	9,000# 100 mesh sand.
6618'-6644'	105,000# 20/40 sand.

31. PRODUCTION

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

TEMPORARILY ABANDONED

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.)

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

33. LIST OF ATTACHMENTS
Geological reports previously submitted

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

SIGNED [Signature] TITLE Division Manager DATE 12/15/81

*(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 FORMATION 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 RECOVERER	38. GEOLOGIC MARKERS	
FORMATION	NAME	
TOP	MEAS. DEPTH	
BOTTOM	TRUE VERT. DEPTH	
DESCRIPTION, CONTENTS, ETC.	TOP	
	Chinle Cutler Hermosa Paradox Salt Paradox Clastic #19 Cane Creek Matthew Base Salt TD	surface 400' 2300' 3598' 6212' 6569' 6680' 6981' 7253'



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

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

August 14, 1982

Davis Oil Company
410 17th Street, Suite 1400
Denver, Colorado 80292

Re: Well No. Matthew Federal #2
Sec. 4, T. 26S, R. 20E.
Grand County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office December 15, 1981, from above referred to well, indicates the following electric logs were run: CBL, CNL-FDC-DIL, GR-CCL. As of today's date, this office has not received these logs: GR-CCL.

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

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Clerk Typist

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-44014

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Matthew Federal

9. WELL NO.

#2

10. FIELD AND POOL, OR WILDCAT

Development

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

Sec. 4 T26S R20E

SUNDRY NOTICES AND REPORTS ON WELLS

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

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Davis Oil Company

3. ADDRESS OF OPERATOR

410 17th St. Suite 1400, Denver, CO 80202

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

CSWNE Sec. 4 T26S R20E

14. PERMIT NO.

43-10930823

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

5003 GL 5015 KB

12. COUNTY OR PARISH

Grand

13. STATE

Utah

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)*

Current Status: TA as of December 10, 1981 - Never Produced

TD: 7253

PBTD; 6900

Casing will be abandoned in place

Casing Record: 13 3/8", 54.5#, K-55 set @ 541 w/ 525 sx cemented to surface

9 5/8", 36#, K-55 set @ 3593 w/1100 sx cemented to surface

5 1/2", 20#, N-80 set @ 7253 w/695 sx cemented to 5240'

Perf. Record: Cane Creek Formation @ 7110'-7121'

Plugging Procedure:

1. Place a 10 sx cement plug 100' above CIBP @ 6800'

2. Pump 35 sx down surf. csg/prod. csg annulus. This will cover a minimum of 100' of annular space.

3. Place a 25 sx cement plug in smallest csg. extending to surf. and install a regulation dryhole marker.

5. Clean, level, and re-seed per landowners satisfaction.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: _____

BY: _____

APPROVED
SEP 28 1982
COUNTY DISTRICT
OIL & GAS OFFICE

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

SIGNED REB _____

TITLE Rocky Mountain Division Mgr.

DATE 9/22/82

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

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

April 22, 1983

Davis Oil Company
410 17th Street, Suite # 1400
Denver, Colorado 80202

Re: Well No. Gold Bar Unit # 2
Sec. 23, T. 25S, R. 20E.
Grand County, Utah

Well No. Matthew Federal # 2
Sec. 4, T. 26S, R. 20E.
Grand County, Utah

Gentlemen:

The above referred to wells have been currently under a temporarily abandoned status for six months or longer. Would you be kind enough to inform this office of a change in status, or let us know if they are still temporarily abandoned, submitted on a Sundry Notice (Form OGC-1B, enclosed).

Thank you for your prompt attention to the above submittal.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Well Records Specialist

CF/cf
Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Davis Oil Company

3. ADDRESS OF OPERATOR
410 17th St. Suite 1400 Denver, Co.

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: *CSWNE Sec. 4, T26S, R20E*
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-44014

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Matthew Federal

9. WELL NO. # *2*

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 4 T26S R20E

12. COUNTY OR PARISH | 13. STATE
Grand | Utah

14. API NO.
43-10930823

15. COMMENTS (SHOW DF, KDB, AND WD)
5015 KCB

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

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

RECEIVED

MAY 03 1983

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

DIVISION OF
OIL, GAS & MINING

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.)*

As per instructions from Mr. Rassoul (Minerals Management U.S. Government) set cement plugs as follows: (Nov. 10 and 11, 82).

- 1. Displaced fluid in hole with 12.5# mud.*
- 2. Set cement plug 6650' to 6500' (19 sacks).*
- 3. Set cement plug 5440' to 5240' (25 sacks).*
- 4. Perforated casing at 2000'*
- 5. Pumped 50 sacks cement behind 5 1/2" through ports.*
- 6. Set cement plug 2000' to 1800' (25 sacks).*
- 7. Set cement plug 100' to 4' in and out (51 sacks).*

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

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

SIGNED *C. E. Powell* TITLE *Asst Dist Supt* DATE *11/12/82*

(This space for Federal or State office use)

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

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: _____

HALLIBURTON SERVICES

JOB LOG

WELL NO. 2 LEASE MATHAN TICKET NO. 20473
 COMPANY DAVIS OIL CO. PAGE NO. 1
 JOB TYPE plug to ahead DATE 11-9-42

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TIRES	CASING	
1	11:30							START MIXING
								2nd mixing 1000. T. 12.2
			140					3rd mixing 1000. T. 12.2
2	11:41							4th mixing 1000. T. 12.2
4	11:50		250					5th mixing 1000. T. 12.2
								6th mixing 1000. T. 12.2
			40					7th mixing 1000. T. 12.2
11	12:14							START WATER Ahead
8	12:15		5					WATER Ahead START mixing 1000.
9	12:25		4					1st mix START ON displ
10	12:29		35					Displ in Plug set 2 6638-1770
11	12:41							START - Reverse out
12	12:50		36					Reverse out - NO CR
13	14:14							START WATER Ahead
14	14:19		5					WATER Ahead START mixing 1000.
15	14:23		5.2					2nd mix START mixing 1000.
16	14:33		28					Displ in Plug set 2 6638-5260
17	14:40							Reverse out - NO CR

ROCKY MOUNTAIN DIVISION
SUNDRY NOTICE DISTRIBUTION

Federal Lease

Original + two copies: U.S.G.S. District Office
One copy : State Oil & Gas Conservation Commission

State or FEE Lease

Original + two copies: State Oil & Gas Conservation Commission

One copy to each of the following for all Sundry Notices except as noted:

B.R. PORTER - District Superintendent - Casper DOC
C.R. HEARING - Ass't. District Superintendent - Gillette DOC

Wyoming, Counties of: (only)
Campbell
Sheridan
Johnson
Crook
Weston

C.E. POWELL - Ass't. District Superintendent - Cortez DOC
All of Utah except Rich & Summit Counties
All of Colorado and New Mexico

Garry Roggson
Permit Representative - Casper DOC

Moria McHenry
Engineer Tech - Denver

Julie McGee
Geological Clerk - Denver

Chris Jones
Production Clerk - Denver

Jane Satre
General Acctg. Manager - Denver

B.J. Crawford
Manager of Lse. Records - Denver

Sally Kicklighter
Division Orders - Denver

Ed Phillips
Legal Dept. - Denver

Robert F. Blaylock
Rocky Mountain Division Manager - Denver

~~11-18-82~~

~~11-17-82~~

11-17-82

FEB 4/5/82