

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FIL WATER SANDS LOCATION INSPECTED SUB. REPORT/abd

DATE FILED **January 29, 1982**
 LAND: FEE & PATENTED STATE LEASE NO PUBLIC LEASE NO **U-31928** INDIAN
 DRILLING APPROVED: **February 19, 1982**
 SPUDED IN: **3-18-82**
 COMPLETED: **4-27-82** STOW PUT TO PRODUCING: **4-27-82**
 INITIAL PRODUCTION: **528 BOPD, 401 MCF,**
 GRAVITY API **43.6**
 GOR: **759**
 PRODUCING ZONES: **5,504-5524 ISMAY**
 TOTAL DEPTH: **5,780**
 WELL ELEVATION: **5,114**
 DATE ABANDONED:
 FIELD: ~~WILDCAT~~ **Tin Cup Mesa**
 UNIT:
 COUNTY: **SAN JUAN**

WELL NO **TIN CUP MESA #3-26** API NO. **43-037-30762**
 LOCATION **500** FT. FROM (N) LINE. **2125** FT. FROM (E) LINE. **NW NE** 1/4 -- 1/4 SEC **26**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
38S	25E	26	MARATHON OIL COMPANY				

GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinle	1,574	Molas
Alluvium	Wahweap	Shinarump	2,374	Manning Canyon
Lake beds	Masuk	Moenkopi	2,428	Mississippian
Pleistocene	Colorado	Sinbad		Humbug
Lake beds	Sego	PERMIAN		Brazer
TERTIARY	Buck Tongue	Kaibab		Pilot Shale
Pliocene	Castlegate	Coconino		Madison
Salt Lake	Mancos	Cutler	2,494	Leadville
Oligocene	Upper	Hoskinnini		Redwall
Norwood	Middle	DeChelly		DEVONIAN
Eocene	Lower	White Rim		Upper
Duchesne River	Emery	Organ Rock		Middle
Uinta	Blue Gate	Cedar Mesa		Lower
Bridger	Ferron	Haigaite Tongue		Ouray
Green River	Frontier	Phosphoria		Elbert
	Dakota	Park City		McCracken
	Burro Canyon	Rico (Goodridge)		Aneth
	Cedar Mountain	Supai		Simonson Dolomite
	Buckhorn	Wolfcamp		Sevy Dolomite
Wasatch	JURASSIC	CARBON I FEROUS		North Point
Stone Cabin	Morrison	Pennsylvanian		SILURIAN
Colton	Salt Wash	Oquirrh		Laketown Dolomite
Flagstaff	San Rafael Gr.	Weber		ORDOVICIAN
North Horn	Summerville	Morgan		Eureka Quartzite
Almy	Bluff Sandstone	Hermosa		Pogonip Limestone
Paleocene	Curtis	HONAKER TRAIL	4,331	CAMBRIAN
Current Creek	Entrada	Pardox	5,274	Lynch
North Horn	Moab Tongue	Ulsmay	5,429	Bowman
CRETACEOUS	Carmel	Desert Creek	3,682	Tapeats
Montana	Glen Canyon Gr.	Akah		Ophir
Mesaverde	Navajo	Barker Creek		Tintic
Price River	Kayenta	CHIMNEY ROCK	5,757	PRE-CAMBRIAN
Blackhawk	Wingate	Cane Creek		
	TRIASSIC	AKAH	5708	



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

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

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

January 10, 1982

Marathon Oil Company
P. O. Box 2659
Casper, Wyoming 82602

Re: Well No. Tin Cup Mesa #3-26
Sec. 26, T. 38S, R. 25E.
San Juan County, Utah

Gentlemen:

Our office contacted you on December 11, 1982, requesting that you send in the electric logs for the above referred to well.

According to our records, a "Well Completion Report" filed with this office May 5, 1982, from above referred to well, indicates the following electric logs were run: Coriband, BHC, DLL-MSFL, CNL, FDC. As of today's date, this office has not received these logs.

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.

**You are in violation of the above rule. If you wish to continue developing business in the State of Utah, compliance with pertinent rules and regulations is essential. Further delay in your attention to this matter may result in punitive action. Please submit the required information as stated above within fifteen (15) days.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Well Records Specialist

CF/cf



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

January 14, 1982

Marathon Oil Company
P. O. Box 2659
Casper, Wyoming 82602

Re: In response to a phone call with
Walt West this day, concerning logs
on the Tin Cup Mesa #3-26 well,
located in T. 38S, R. 25E, Sec. 26,
Grand County, Utah.

Gentlemen:

We apologize that a second notice for logs pertaining to the Tin Cup Mesa #3-26 well was mailed in error due to a slight administrative overlap, and we exonerate those in your organization who might have been pressed because of these circumstances. My research on the matter reveals no clue as to why we did not receive the original mailing of the logs, but there was an overlap in our office between the date we accounted for receipt of your response to the first notice letter, and the date the second notice letter was mailed.

We will change the language of the first notice letter to accommodate a suggestion by our records specialist (Cari Furse) that we acknowledge receipt of materials and documents. We will do so when an extra copy of the transmittal letter has a place prepared for an acknowledgement signature, and a return addressed envelope is provided for the return mailing. This system will provide feed back which should help eliminate the question of whether or not a document was received by our agency.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in black ink, appearing to read 'Norm Stout'.

Norm Stout
Administrative Assistant

NS/cf

CC: Walt West



**Marathon
Oil Company**

P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/235-2511

January 25, 1982

U.S.G.S.
Attn: Ed Guynn
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

Re: U-31928 - Tin Cup Mesa #3-26
500' FNL & 2,125' FEL
Sec. 26, T38S, R25E, San Juan Co., UT

RECEIVED
JAN 29 1982

**DIVISION OF
OIL, GAS & MINING**

Dear Sir:

At the request of Mr. Bob Turri, BLM, Monticello, Utah office, the presite and staking, as well as the predrill of this proposed well, was accomplished at the same time.

BLM and USGS recommendations and stipulations are incorporated in the 13-Point Program.

The purpose was to save time and better utilize personnel in both agencies. Marathon agrees that this purpose was accomplished.

The following representatives were present on January 18, 1982:

Frank Rosenbaum, Contractor, Farmington, NM
Fred Kerr, Surveyor, Farmington, NM
Asa Nielson, Head Archeologist, BYU, Provo, UT
Winston Hurst, Archeologist, BYU, Provo, UT
Ted Duffin, Archeologist, BYU, Provo, UT
Tom Hare, BLM, Monticello, UT
Brian Wood, BLM, Monticello, UT
Jack Caldwell, MOC, DRC
Donald Englishman, USGS, Durango, CO
Carl Bassett, Landman (MOC), Casper, WY
Mike Krugh, Drilling Supt. (MOC), Casper, WY
Walt West, Gov't. Comp. (MOC), Casper, WY

Yours very truly,

MARATHON OIL COMPANY

A handwritten signature in black ink, appearing to read 'Walt West', written over a horizontal line.

Walt West
Gov't. Compliance

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
 Marathon Oil Company

3. ADDRESS OF OPERATOR
 P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 500' FNL & 2,125' FEL *NWNE*
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 8-1/2 Miles Northwest of Hache's Trading Pots, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 500'

16. NO. OF ACRES IN LEASE 760

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1/2 Mile

19. PROPOSED DEPTH 5,914' *Desert Creek*

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,105' Ungraded Ground

22. APPROX. DATE WORK WILL START* 1st Quarter, 1982

5. LEASE DESIGNATION AND SERIAL NO.
 U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Tin Cup Mesa

9. WELL NO.
 3-26

10. FIELD AND POOL, OR WILDCAT
~~Tin Cup Field~~ *Wildcat*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 26, T38S, R25E

12. COUNTY OR PARISH San Juan

13. STATE Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Please see Item #4 of 10-Point for Complete Casing and Cementing Record.				

Please see the following attachments:

1. Surveyor's Plat
2. Ten-Point Drilling Program
3. BOP Schematic
4. Thirteen-Point Surface Plan
5. Maps and Diagrams

APPROVED BY THE DIVISION OF
 OIL, GAS, AND MINING
 DATE: 2/19/82
 BY: [Signature]

RECEIVED
 JAN 29 1982
 DIVISION OF
 OIL, GAS & MINING

The person responsible for NTL-6 is: Walt West
 Gov't Compliance
 Marathon Oil Company
 Office: (307) 577-1555
 Home: (307) 235-1420

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

24. SIGNED [Signature] TITLE District Operations Manager DATE January 26, 1982
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY: _____

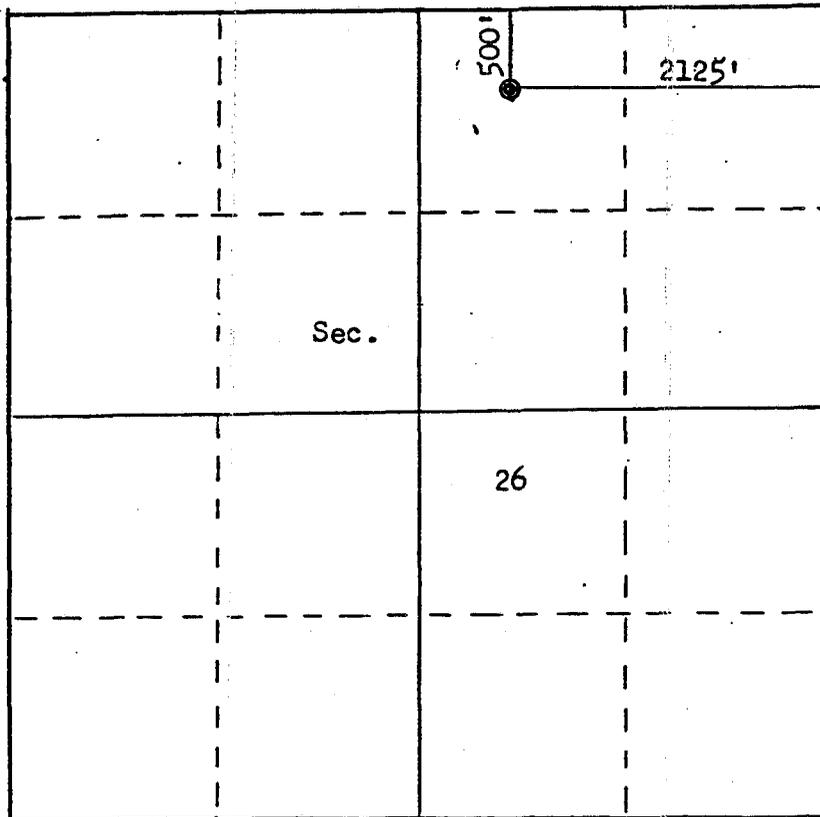
COMPANY MARATHON OIL COMPANY

LEASE TIN CUP MESA WELL NO. 3-26

SEC. 26, T 38S, R 25E
San Juan County, Utah

LOCATION 500' ENL 2125' FEL

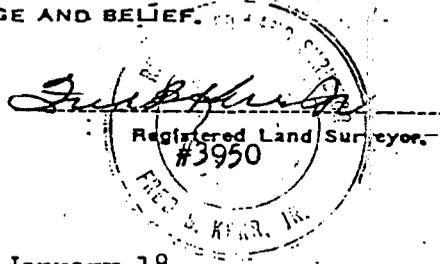
ELEVATION 5105 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

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

SEAL:



SURVEYED January 18 1982

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
 Marathon Oil Company

3. ADDRESS OF OPERATOR
 P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface 500' FNL & 2,125' FEL
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 8-1/2 Miles Northwest of Hatche's Trading Pots, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 500'

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17. NO. OF ACRES ASSIGNED TO THIS WELL 40

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19. PROPOSED DEPTH 5,914'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,105' Ungraded Ground

22. APPROX. DATE WORK WILL START* 1st Quarter, 1982

5. LEASE DESIGNATION AND SERIAL NO.
 U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Tin Cup Mesa

9. WELL NO.
 3-26

10. FIELD AND POOL, OR WILDCAT
 Tin Cup Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 26, T38S, R25E

12. COUNTY OR PARISH 13. STATE
 San Juan Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Please see Item #4 of 10-Point for Complete Casing and Cementing Record.				

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The person responsible for NTL-6 is: Walt West
 Gov't Compliance
 Marathon Oil Company
 Office: (307) 577-1555
 Home: (307) 235-1420

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24. SIGNED Walt Caddy TITLE District Operations Manager DATE January 26, 1982
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 FOR E. W. GUYNN
 APPROVED BY WT Martin TITLE DISTRICT OIL & GAS SUPERVISOR DATE FEB 17 1982
 CONDITIONS OF APPROVAL, IF ANY :

CONDITIONS OF APPROVAL ATTACHED
 TO OPERATOR'S COPY
 *See Instructions On Reverse Side

NOTICE OF APPROVAL

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

STATE OF G

Identification No. 180-82

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

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Marathon Oil Company

Project Type single zone oil explorational well

Project Location 500' FNL / 2155' FEL, sec. 26, T. 33 S., R. 25 E., San Juan County, Utah

Well No. 3-26 Tin Cup ^{Mesa} Lease No. U-31928

Date Project Submitted _____

FIELD INSPECTION

Date January 18, 1982

Field Inspection
Participants

Walt West / Carl Bassett / Bill Schock / Mike Krush /
Jack Caldwell - Marathon Oil Company

Ace Nielson / Ted Duffin / Winston Hurst } Cultural Resources
Management Service
B.V.U.

Frank Rosenbaum - Rosenbaum Construction

Fred Kerr / Tony Hanson - Kerr Engineering Co.

Brian Wood / Tame Hare - Bureau of Land Management

Don Englishman - U.S. Geological Survey

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.

January 19 1982
Date Prepared

Donald Englishman
Environmental Scientist

I concur

FEB 09 1982
Date

W.P. Hunter FOR E. W. GUYNN
DISTRICT OIL & GAS SUPERVISOR
District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

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

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application for Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement

Remarks:

Location was moved from pre-state location to a more suitable location during the PER inspection.

MARATHON OIL COMPANY
DRILLING OPERATIONS PLAN

DATE: January 26, 1982

WELL NAME: Tin Cup Mesa #3-26

LOCATION: 500' FNL & 2,125' FEL, Sec. 26, T38S, R25E, San Juan Co., Utah

1. Geologic name of the surface formation:
Jurassic Morrison Formation
2. Estimated tops of important geological markers:

All depths referred to in this 10 point program will be K.B. measurements.

<u>Formation</u>	<u>Depth (K.B.)</u>	<u>Datum</u>	<u>Formation</u>	<u>Depth (K.B.)</u>	<u>Datum</u>
Carmel	811'	+4,303'	Paradox	5,270'	-156'
Navajo	837'	+4,277'	U. Ismay	5,431'	-317'
Kayenta	1,056'	+4,058'	Hovenweep	5,594'	-480'
Wingate	1,231'	+3,883'	L. Ismay	5,624'	-510'
Chinle	1,581'	+3,533'	Gothic Shale	5,674'	-560'
Shinarump	2,385'	+2,729'	Desert Creek	5,682'	-568'
Moenkopi	2,448'	+2,666'	Chimney Rock	5,782'	-668'
Cutler	2,493'	+2,621'	Akah	5,804'	-690'
Honaker Trail	4,338'	+ 776"	P.T.D.*	5,914'	-800'

*If significant hydrocarbon shows are encountered, the well will be T.D.'d at about 5,804 feet to avoid entering the Akah Salt (Top expected between 5,834' and 5,914')

3. Estimated depths at which oil, water, gas or other mineral bearing formations are expected to be encountered:

<u>Formation</u>	<u>Depth (K.B.)</u>	<u>Content</u>
Carmel	811'	Water
Navajo	837'	Water
Wingate	1,231'	Water
DeChelly**	2,493'	Brine
Honaker Trail	4,338'	Oil***
Paradox	5,270'	Brine
Upper Ismay	5,431'	Oil***
Lower Ismay	5,624'	Oil***
Desert Creek	5,682'	Oil***

** The Cutler Formation may contain the DeChelly member.

***Primary Objectives

4. The Proposed Casing Program:

Cement Program Continued:

7" Casing

1st Stage:

Cement Volume: 2,914' x .1503 cu.ft/ft x 1.20 excess = 525 cu.ft.

Slurry: 2,914' calculated plus 20% excess from logs - 445 sacks of Class "B" cement containing 0.8% fluid loss additive (D-19, Halad-9, etc.).

2nd Stage:

Cement Volume: 1,900' x .1503 cu.ft/ft x 1.2 excess = 343 cu.ft.

Slurry: 1,900' calculated (550' into 9-5/8" casing) plus 20% excess from logs 186 sacks of high yield cement (BJ Lite, Halliburton Lite, etc.)

Casing Equipment: Locate stage collar at 3,000'. A float shoe, flapper type float collar, 1 cement basket, and 10 centralizers spaced over the bottom 800' of hole will be used. If float holds, closed-in pressure after completion of cement job is not recommended. Set casing on slips as soon as possible following the cement job.

Slurry Preflush: 1st and 2nd Stage 20 bbls.

5. Pressure Control Equipment:

BOP equipment will include a double-ram type preventer with pipe and blind rams and a rotating head (API arrangement SRdG). All equipment will have a 3,000 psi or greater working pressure. Rams, valves, lines, choke manifold and casing will be tested to 200 psi for 5 minutes and 1,500 psi for 15 minutes prior to drilling out from under 9-5/8" surface casing. After drilling casing shoe and 5 feet of additional hole, a shoe test will be performed to 13.5 ppg equivalent mud weight or leakoff, whichever ever occurs first. The accumulator should be of sufficient capacity to meet the following requirements:

1. Ability of immediate closure to all members of the stack without recharging.
2. A total of 50% of the original fluid should remain as a reserve after accumulator activation.
3. A minimum pressure of 1,200 psi is required to insure that the preventers remain closed.

Visual checks of the equipment will be made tourly. Function pipe rams daily and blind rams on trips.

4. The Proposed Casing Program:

CASING STRING	HOLE SIZE	INTERVAL	SECTION LENGTH	SIZE (OD)	WEIGHT, GRADE AND JOINT	New OR USED	MUD WEIGHT	1000# TENSION LOAD	SF _t	SF _c	SF _b
Surface	12-1/4"	0'-1,650'	1,650'	9-5/8"	36# K-55	New	8.5, 9.0	423	8.38	2.48	1.231
Prod.	8-3/4"	1,650'-4,300'	4,300'	7"	23# K-55	New	9.4, 11.3	309	2.70	1.138	1.525
		4,300'-5,914'	1,614'	7"	26# K-55	New	11.9, 12.2	364	28.0	1.139	3.49

Cement Program:

9-5/8" Casing

Cement Volume: 1,650' x .3132 cu.ft/ft x 2.0 excess = 1,034 cu.ft.

Lead Slurry: 1,000' calculated plus 100% excess - 340 sacks of high yield cement (BJ Lite, Halliburton Lite, etc.) containing 1/4#sack cellophane flakes and 2% CaCl₂.

Slurry Yield: 1.84 cu.ft/sack

Slurry Density: 12.7#/gal

Water Requirement: 9.9 gal/sack

Tail Slurry: 650' calculated plus 100% excess - 345 sacks of Class "B" cement containing 1/4#sack cellophane flakes and 2% CaCl₂.

Slurry Yield: 1.18 cu.ft/sack

Slurry Density: 15.6#/gal

Water Requirement: 5.2 gal/sack

Casing Equipment: Float shoe, float collar, 3 centralizers.

WOC time will be a minimum of 6 hours. If float equipment holds, closed-in pressure after cementing is not recommended.

6. Drilling Mud Program:

<u>From</u>	<u>To</u>	<u>Type Mud</u>	<u>Weight</u>	<u>% Oil</u>	<u>Water Loss</u>
0'	1,650'	Spud	8.5-9.0	0	No Control
1,650'	Cutler 2,493'	Gel/Water	8.5-9.0	0	No Control
Cutler 2,493'	U. Ismay 5,431'	Gel/Chemical	9.4-11.3	0	10.0-12.0 cc's
U. Ismay 5,431'	T.D.	Gel/Chemical	11.9-12.2	0	8.0-9.0 cc's

Mud weights should be kept to a minimum to maximize ROP and minimize lost circulation. However the existence of water flows may necessitate an increase in mud weight while drilling. Sufficient barite should be on location prior to spud in order to increase mud weight to 12.5 ppg if required. Lost circulation is expected in the upper hole before setting surface casing.

7. Auxillary Equipment Required:

A drilling rate recorder, calibrated to record drilling time for each one foot drilled will be used.

A Kelly cock will be used and a full opening safety valve will be available on the rig floor.

The mud system will include a desander/desilter, gas buster or degasser.

A manual adjustable choke will be used.

<u>From</u>	<u>To</u>	<u>Maximum Distance Between Surveys</u>	<u>Maximum Deviation From Vertical</u>	<u>Maximum Change Per 100' of Depth</u>
0'	1,650'	250'	1°	1°
1,650'	T.D.	500'	5°	1°

8. Testing, Logging, Coring and Fracing Program:

Samples: 10' intervals from 1,650' to T.D. with a two-man mud logging unit.

- Logging:
1. DI-SFL/GR from surface casing to T.D.
 2. BHC Sonic/GR from surface casing to T.D.
 3. FDC/CNL-GR from surface casing to T.D.
 4. Dipmeter from surface casing to T.D.
 5. Coriband (Cyber look) from top of Honaker Trail Formation to T.D.

- Testing:
1. Honaker Trail
 2. Upper Ismay
 3. Desert Creek

Coring: Approximately 360 feet of core in intervals to be determined from Formation tops while drilling.

Fracing Program: If necessary, Acid stimulation.

9. Abnormal Conditions:

The DeChelly Member of the Cutler Formation, if penetrated, may contain over-pressured salt water requiring 11.0 to 12.2 ppg mud weight to control.

Maximum anticipated bottom hole pressure is approximately 3,450 psi.

Maximum anticipated bottom hole temperature is approximately 175°F.

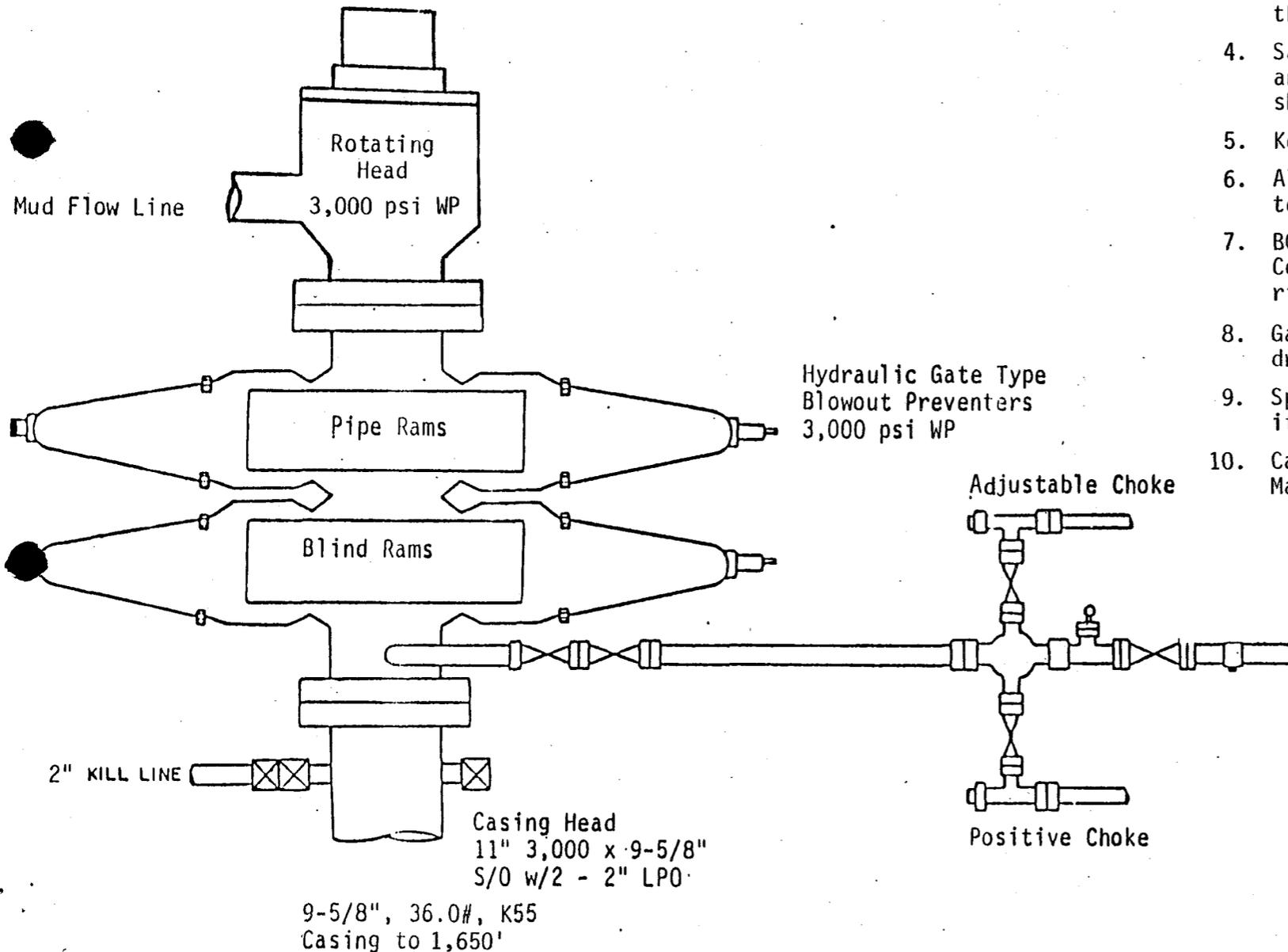
10. Starting Date: 1st Quarter, 1982

Durations: 38 Days

Name Michael E. Kung ATE 1-26-
Title District Dirg Supt
Date 1-26-82

Tin Cup Mesa #3-26
 NW, NE, Sec. 26, T38S, R25E
 San Juan Co., Utah

1. Blowout preventers, master valve, plug valve and all fittings must be in good condition. Use new API Seal Rings.
2. All fittings (gates, valves, etc.) to be of equivalent pressure rating as preventers. Valves to be flanged and at least 2" unless otherwise specified. Valves next to BOP to be plug type and nominal 3".
3. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
4. Safety valve must be available on rig floor at all times and with proper connections. The I.D. of safety valves should be as great as I.D. of tool joints on drill pipe.
5. Kelly safety valve installed, same working pressure as BOP's.
6. All lines and controls to preventers must be connected and tested before drilling out of surface pipe.
7. BOP's must be fluid operated, complete with accumulator. Controls may be either on floor or ground near steps from rig floor.
8. Gauge will be installed for testing but removed while drilling.
9. Spool not required, but when side outlet on BOP's is used, it must be below bottom ram.
10. Casinghead and casinghead fittings to be furnished by Marathon Oil Company.



MARATHON OIL COMPANY
SURFACE USE & OPERATIONS PLAN

DATE: January 26, 1982

WELL NAME: Tin Cup Mesa #3-26

LOCATION: 500' FNL & 2,125' FEL, Section 26, T38S, R25E, San Juan County, Utah

1. Existing Roads:

- A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes.)

See survey plat.

- B. Route and distance from nearest town and locatable reference point to where well access route leaves main road.

8-1/2 miles northwest of Hatch's Trading Post, Utah. See diagram "A" color coded red.

- C. Access road(s) to location color coded or labeled.

See map diagram "A" color coded green.

- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.).

See map diagram "A"

- E. If development well, all existing roads within a 1-mile radius of well site.

Not applicable.

- F. Plans for improvement and/or maintenance of existing roads.

Bladed work on county roads will be in conjunction with San Juan County Road Department, Monticello, Utah, also any roads tying into county roads will be to BLM stipulations.

2. Planned Access Roads:

Map showing all necessary access roads to be constructed or reconstructed, showing:

- | | |
|---|--|
| (1) Width | .18' |
| (2) Maximum grades | 0-9 ⁰ |
| (3) Turnouts | None |
| (4) Drainage design | Ditched and crowned, trailer ditches where needed. |
| (5) Location and size of culverts and brief description of any major cuts and fills. | None |
| (6) Surfacing material | Gravel |
| (7) Necessary gates, cattleguards, or fence cuts. | No cattleguards or fence cuts will be required. |
| (8) New or reconstructed roads are to be center-line flagged at time of location staking. | |

Is flagged with Hot Orange and Blue flagging material. The access road was walked 100' on each side by archeologist from BYU. Right-of-way was obtained from BLM.

4. Location of Existing and/or Proposed Facilities: (Cont.)

- C. Plans for rehabilitation of disturbed areas no longer needed for operations after construction completed.

Drill site and tank battery area will be reshaped to conform with the topograph. Top soil will be distributed at the proper time. Disturbed areas scarified with contours to a depth of 18". Seed will be broadcast, as per BLM recommendation.

5. Location and Type of Water Supply:

- A. Show location and type of water supply either on map or by written description.

Primary: Down stream side of Cross Creek (BLM approved).

Secondary: Sec. 28, T38S, R26E
 Sec. 35, T38S, R25E (Artesian water wells)

Water permits are in the process of being obtained.

- B. State method of transporting water, and show any roads or pipelines needed.

Existing roads and access road will be used to haul water to the location.

- C. If water well is to be drilled on lease, so state. (No APD for water well necessary, however, unless it will penetrate potential hydrocarbon horizons.)

No water well will be drilled.

6. Source of Construction Materials:

- A. Show information either on map or by written description.

Construction materials will be native soils.

- B. Identify if from Federal or Indian Land.

None

- C. Describe where materials, such as sand, gravel, stone and soil material are to be obtained and used.

Any needed materials will be discussed with Mr. Bob Turri or Mr. Brian Wood of BLM, Monticello, Utah.

- D. Show any needed access roads crossing Federal or Indian Lands under Item 2.

None

7. Methods of handling Waste Disposal:

Describe methods and location of proposed containment and disposal of waste material, including:

- | | |
|----------------------------------|-------------|
| (1) Cuttings | Reserve Pit |
| (2) Drilling Fluids | Reserve Pit |
| (3) Produced fluids (oil, water) | Swab Tanks |
| (4) Sewage | Porta Pot |

7. Methods of Handling Waste Disposal: (Cont.)

- (5) Garbage and other waste material (trash pits will be completely contained with small mesh wire to prevent wind scattering trash before being burned or buried).

There will be a 10' x 10' burn pit and it will be woven wire fenced.

- (6) Statement regarding proper cleanup of well site area when rig moves out.

Area will be cleaned up and all burnable material will be put in the burn pit and burned. Non-burnable debris will be buried under 2' of compacted earth. Burn permit will be obtained from State Fire Warden, John Baker. (May1-Oct. 31)

8. Ancillary Facilities:

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods. (Camp center and airstrip center lines to be staked on the ground.)

None

9. Wellsite Layout:

A plat (not less than 1" = 50') showing:

- (1) Cross sections of drill pad with cuts and fills.

See diagram "C"

- (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities and soil material stockpiles.

See diagram "D"

- (3) Rig orientation, parking areas and access roads.

See diagram "D"

- (4) Statement as to whether pits are to be lined or unlined. (Approval as used in this section means field approval of location. All necessary staking of facilities may be done at time of field inspection.) A registered surveyor is not mandatory for such operations.

Pit will not be lined. Dirt contractor will notify Mr. Bob Turri of BLM when the pit is made.

10. Plans for Restoration of Surface:

State restoration program upon completion of operations, including:

- (1) Backfilling, leveling, contouring and waste disposal; segregation of spoils materials as needed.

Site will be cleaned and waste materials put in trash burn pit, which will be covered w/2' of compacted earth at the finish of drilling operation. Reserve pit will be backfilled as soon as it is dry.

- (2) Revegetation and rehabilitation - including access roads (normally per BLM recommendations).

Top soil will be redistributed and at the proper season, the following BLM seed requirements will be broadcast planted.

2 #/acre Indian Rice grass; 1 #/acre Alkali Sacaton; 1 #/acre Fourwing Saltbrush; 2 #/acre shade scale. Trees will be scattered evenly over the disturbed areas and walked down with a dozer.

10. Plans for Restoration of Surface: (Cont.)

- (3) Prior to rig release, pits will be fenced and so maintained until cleanup.

Reserve pit will be fenced on 3 sides during drilling. At completion of drilling, all pits will be fenced on the remaining side.

- (4) If oil on pit, remove oil or install overhead flagging.

If there is any oil on the reserve pit, it will be removed or flagged with overhead flagging.

- (5) Timetable for commencement and completion of rehabilitation operations.

Depending upon climatic conditions, restoration should be completed from six months to one year after abandoning well.

11. Other Information:

General Description of:

- (1) Topography, soil characteristics, geologic features, flora and fauna.

Sagebrush, scrub cedars, rock formations, occasionally dissected by light to heavy drainage features. Deer, rabbits, fox, small rodents, cattle and sheep.

- (2) Other surface use activities and surface ownership of all involved lands.

Access road and drill site are owned by U.S. Government. Surface facilities will be painted Federal Std. #30318, Badlands Brown.

- (3) Proximity of water, occupied dwellings, archeological, historical or cultural sites.

There is no water or occupied dwelling in the area. Archeological work was performed by BYU, Provo, Utah.

12. Lessee's or Operator's Representative:

Mike E. Krugh - Marathon Oil Company
P.O. Box 2659
Casper, WY 82602

Office: (307) 577-1555, Ext. 408
Home: (307) 577-1664

13. Certification: The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan:

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

1-26-82
Date

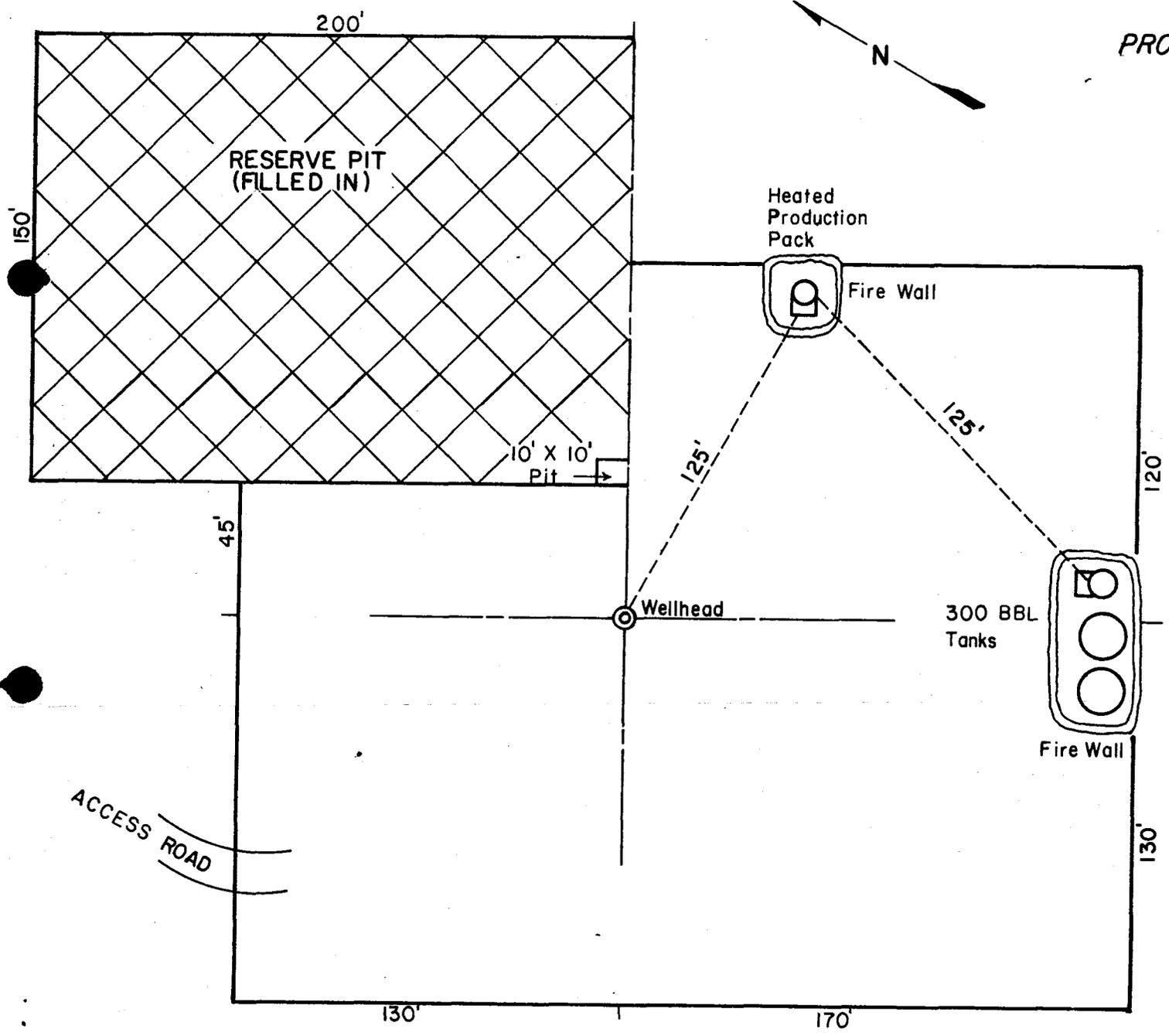
Michael E. Krugh - DTE-1-26-82
Name

Dist. Drilling Superintendent
Title

**SCHEMATIC
of
PRODUCTION FACILITIES**

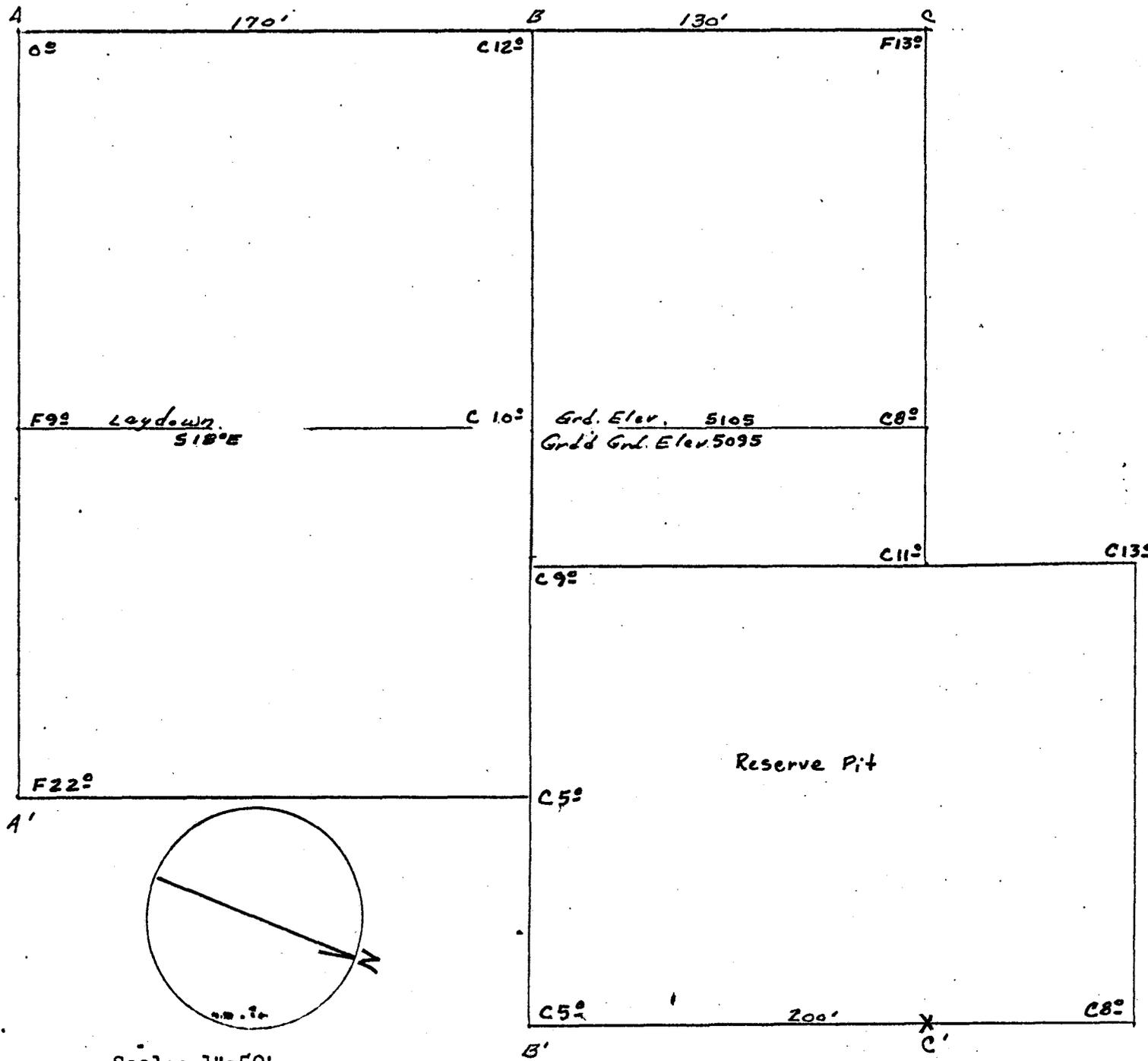
Scale 1"=50'
PROPOSED

DIAGRAM B

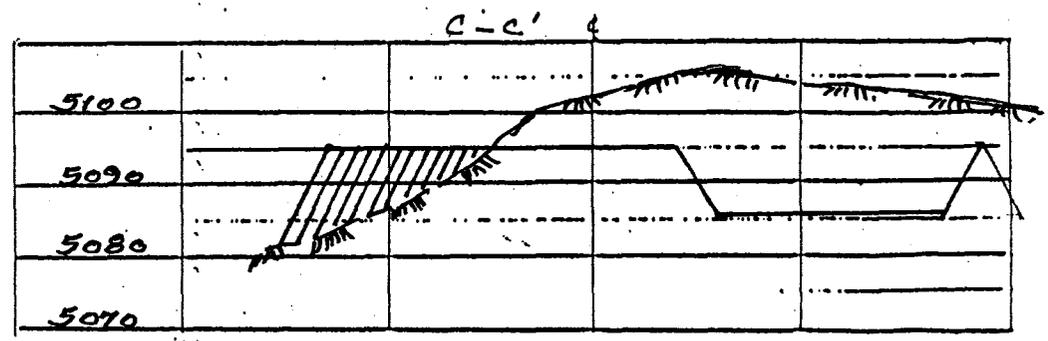
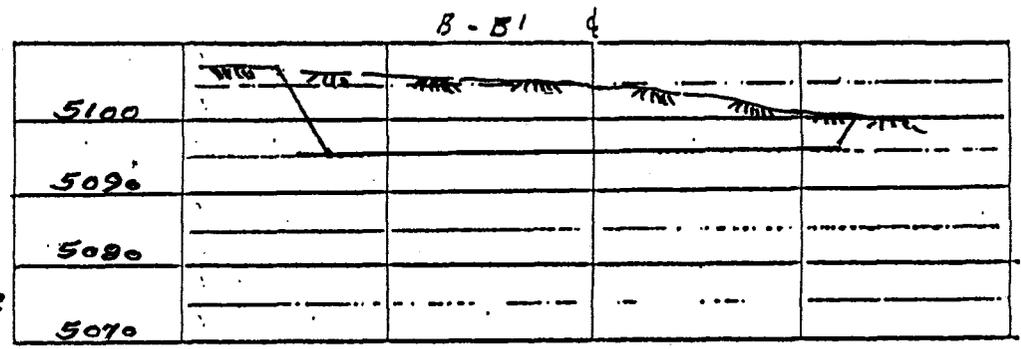
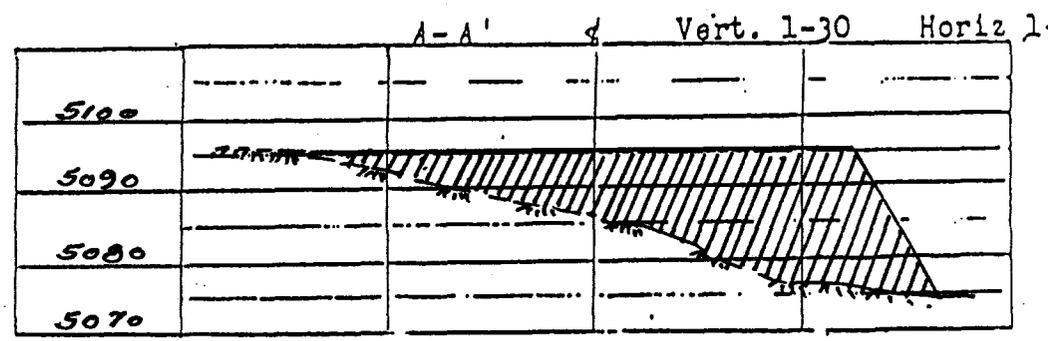


Tin Cup Mesa #3-26
C SWNW Sec. 26, T 38 S R 25 E
500' FNL & 2125' FEL
San Juan Co., Utah
GL 5105'

Profile for
 MARATHON OIL COMPANY #3-26 TIN CUP MESA
 500' FNL 2125' FEL Sec. 26-T38S-R25E
 SAN JUAN COUNTY, UTAH



Scale: 1"=50'



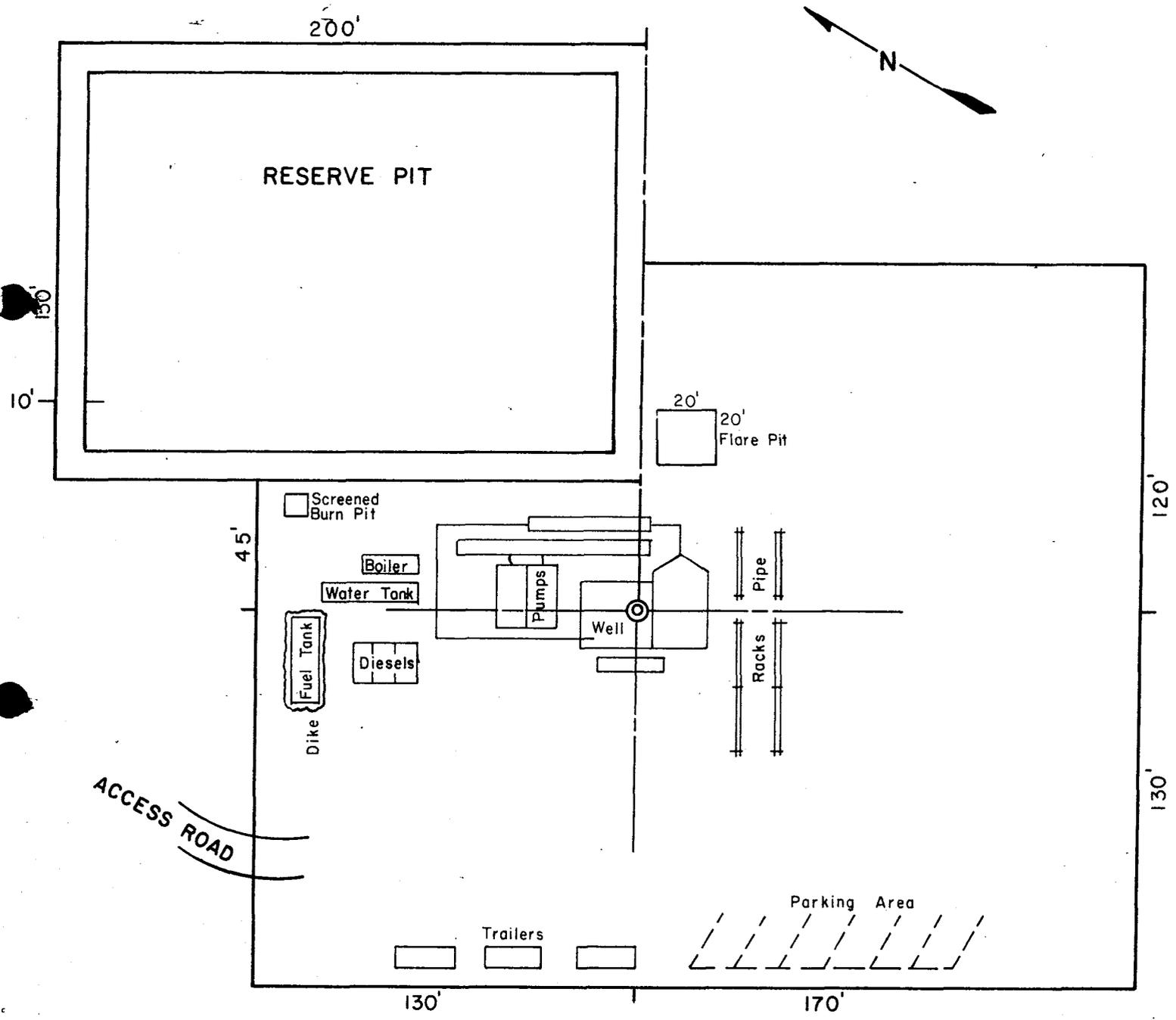
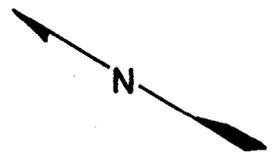
Kerr Land Surveying Inc.

Date: 1-18-82

C'

**SCHEMATIC
of
RIG LAYOUT**
Scale 1"=50'
PROPOSED

DIAGRAM D



Tin Cup Mesa #3-26
C SWNW Sec. 26, T 38S R 25E
500' FNL & 2125' FEL
San Juan Co., Utah
GL 5105'



United States Department of the Interior

IN REPLY REFER TO

T38SR25E Sec. 26
(U-069)

BUREAU OF LAND MANAGEMENT

Moab District
San Juan Resource Area
P.O. Box 7
Monticello, Utah 84535

February 2, 1982

Memorandum

To: Mineral Management Service, Durango, Colorado
From: Area Manager, San Juan
Subject: Marathon's Tincup Mesa No. 3-26 Well (U-31928)

We concur with approval of the APD subject to the following stipulations:

1. The operator or his contractor will contact the San Juan Resource Area Office in Monticello, Utah (801-587-2201) 48 hours prior to beginning any construction or rehabilitation.
2. The dirt contractor will be furnished with a copy of the Surface Use Plan and any additional BLM stipulations prior to any work.
3. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the San Juan 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 of picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
4. The top eight inches of soil material will be removed from the location and stockpiled separate from the trees on the southwest side of the location. Topsoil along the access will be reserved in place.
5. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
6. In the event of a dry hole, the road will be blocked to prevent access and water bars will be installed as follows:

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

RECEIVED

FEB 3 1982

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

7. The access to Tin Cup Mesa 1-25 will be upgraded at the same that the location for Tin Cup Mesa 3-26 is built. This includes crowning and ditching the road and installing waterbars as detailed in the letter to Marathon on November 27, 1981 and discussed with Frank Rosenbaum on January 28, 1982.

The archaeological requirement has been fulfilled. No threatened or endangered species are indicated in the area.

Robert Lurie.

** FILE NOTATIONS **

DATE: 2-16-82
OPERATOR: Marathon Oil Co.
WELL NO: Tip Cup Mesa 3-26
Location: Sec. 26 T. 38S R. 25E County: San Juan

File Prepared: Entered on N.I.D:
Card Indexed: Completion Sheet:

API Number 43-037-30762

CHECKED BY:

Petroleum Engineer: _____
Director: as per Rule C-3
Administrative Aide: as per Rule C-3

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 Std. Plotted on Map
Approval Letter Written
Hot Line P.I.

February 19, 1982

Marathon Oil Company
P. O. Box 2659
Casper, Wyoming 82602

RE: Well No. Tip Cup Mesa 3-26
Sec. 26, T. 38S, R. 25E
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil/gas well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

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

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

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 43-037-30862.

Sincerely,

DIVISION OF OIL, GAS AND MINING


Cleon B. Feight
Director

CBF/as
Encl.
cc: USGS

NOTICE OF SPUD

Caller: Walt West

Phone: Marathon

Well Number: Jim Cup Mesa 3-26

500' FNL
Location: 2125' FEL (NWNE) 26-38S-25E

County: San Juan State: Utah

Lease Number: U-31928

Lease Expiration Date: _____

Unit Name (If Applicable): _____

Date & Time Spudded: 3-18-82 4:00 P.M.

Dry Hole Spudder (Rotary): Emergency Rigg #1

Details of Spud (Hole, Casing, Cement, etc.) 12 1/4" hole

Rotary Rig Name & Number: _____

Approximate Date Rotary Moves In: _____

FOLLOW WITH SUNDRY NOTICE

Call Received By: KR

Date: 3-18-82

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 Drilling

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659 Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 500' FNL & 2,125' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE
U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
3-26

10. FIELD OR WILDCAT NAME
Tin Cup Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26, T38S, R25E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30762

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,105' G.L.

(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.)*

Please see attached Amendment.

RECEIVED
MAR 26 1982

**DIVISION OF
OIL, GAS & MINING**

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

18. I hereby certify that the foregoing is true and correct
SIGNED Dale T. Cassidy TITLE Dist. Operations Manager DATE 3-22-82

(This space for Federal or State office use)

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

DRILLING OPERATION PLAN AMENDMENT

The amended casing program includes an intermediate string to be set at 4300'. The amended program appears as follows:

<u>STRING</u>	<u>HOLE SIZE</u>	<u>CASING O.D.</u>	<u>SETTING DEPTH</u>	<u>WT. GRADE & COUPLING</u>	<u>SECTION LENGTH</u>
Conductor	26"	20"	60'	Thinwall	60'
Surface	17½"	13 3/8"	1200'	61#, K-55, STC	1200'
Intermediate	12¼"	9 5/8"	2600'	36#, K-55, STC	2600'
		9 5/8"	4300'	36#, S-80, STC	1700'
Production	8 3/4"	7"	4300'	23#, K-55, STC	4300'
		7"	5914'	26#, K-55, STC	1614'

After cementing the 13 3/8" surface string, the shoe will be tested to 12.5 ppg. equivalent or leakoff, whichever occurs first. If no waterflows are encountered from 1200' to 4300', the intermediate string will not be run. The hole size will be changed to 8 3/4" and drilling will continue as planned.

Attached is the Casing Design sheet giving the complete casing data and safety factors.

Tincup Mesa #3-26
CASING DESIGN

3/2/82
 LCI

DESIGN FACTORS:

SF_C = 1.125 Pipe evacuated w/normal MW + .5 ppg. Consider collapse reduction due to tension.

SF_D = 1.250 The greater of: 1. Normal MW in annulus. Bottom hole pressure - .10 ppf gas gradient in gas filled pipe.
 2. Normal MW in annulus. Maximum surface treating pressure + Hydrostatic of treating fluid.

SF_T = 1.50. No buoyancy.

CASING	API/NON-API DRIFT	SETTING DEPTH	SECTION LENGTH	TENSION - 1,000 lb.			COLLAPSE				BURST		
				STRENGTH	FORCE	S. F.	STRENGTH	FORCE	REDUCED STRENGTH	S.F.	STRENGTH	FORCE	S.F.
Surface Casing 3 3/8" K-55, 61#, STC.	12.359	1200'	1200'	633	73	8.7	1540	580	--	2.65	3090	2380	1.298
Intermediate Cas. 9 5/8" K-55, 36# STC	8.765	2600'	2600'	423	155	2.7	2020	1690	1951	1.154	3520	2859	1.231
9 5/8" S-80, 36#, STC	8.765	4300'	1700'	526	61	8.6	2980	2795	3010	1.077	3520	2000	1.760
Production Casing (same as original design - 1/12/82)													
7", K-55, 23#, STC	6.241	4300'	4300'	309	114	2.7	3270	2838	3231	1.138	4360	2859	1.525
7", K-55, 26#, STC	6.151	5914'	1614	364	13	>10	4320	3905	4450	1.139	4980	1426	3.49

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 1

MARATHON OIL COMPANY
 TIN CUP MESA 3-26
 WILDCAT
 SAN JUAN, UTAH

DATE : 09-APR-82
 FORMATION : UPPER ISMAY
 DRLG. FLUID: WATER BASE MUD
 LOCATION : NW NE SEC 20-38S-25E

Cores
 1-2-3

FILE NO : RP-3-3199
 ANALYSTS : GGIDS
 ELEVATION: 5100

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY **PRELIMINARY REPORT**

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
	5435.0-37.0							ANHYDRITE--NO ANALYSIS
	5437.0-41.0							LM/SHL--NO ANALYSIS
	5441.0-44.0							ANHYDRITE--NO ANALYSIS
	5444.0-45.0							ANHY/SHL--NO ANALYSIS
	5445.0-65.0							ANHYDRITE--NO ANALYSIS
1	5465.0-66.0	0.14	*	2.0	0.0	14.4	2.91	DOL, BRN VFXLN ANHY
2	5466.0-67.0	0.63	*	7.0	1.0	15.4	2.85	DOL, BRN RTHY SL/ANHY
3	5467.0-68.0	1.70	1.10	7.8	0.7	16.0	2.86	DOL, BRN RTHY SL/ANHY
4	5468.0-69.0	0.39	*	8.6	1.1	42.0	2.79	SOL, BRN RTHY SL/ANHY
5	5469.0-70.0	0.51	0.19	8.7	2.2	56.1	2.77	DOL, BRN RTHY SL/ANHY
6	5470.0-71.0	0.03	0.01	4.7	0.0	33.3	2.81	DOL, BRN VFXLN LMY SL/ANHY STY
7	5471.0-72.0	0.01	<0.01	2.1	0.0	12.0	2.75	DOL, BRN VFXLN LMY SL/ANHY
8	5472.0-73.0	1.00	0.94	9.8	2.1	17.1	2.80	LM, BRN-GY VFXLN DOL SL/ANHY
9	5473.0-74.0	0.63	0.63	11.0	7.1	28.5	2.81	LM, BRN-GY VFXLN DOL SL/ANHY
10	5474.0-75.0	1.30	1.10	9.7	5.5	20.5	2.84	LM, BRN-GY VFXLN DOL SL/ANHY
11	5475.0-76.0	14.	*	12.2	13.2	8.8	2.88	LM, BRN-GY VFXLN DOL SL/ANHY
12	5476.0-77.0	2.40	2.30	12.7	15.0	25.3	2.78	LM, BRN-GY VFXLN DOL SL/ANHY
13	5477.0-78.0	4.10	*	13.4	12.5	26.4	2.80	LM, BRN-GY VFXLN DOL SL/ANHY
14	5478.0-79.0	10.	*	15.9	12.1	39.8	2.79	LM, BRN-GY VFXLN DOL SL/ANHY
15	5479.0-80.0	6.20	6.00	14.6	12.9	33.8	2.75	LM, BRN VFXLN DOL SL/ANHY
16	5480.0-81.0	9.40	7.40	11.1	14.8	28.1	2.76	LM, BRN-GY VFXLN DOL SL/ANHY
17	5481.0-82.0	11.	11.	12.8	13.6	19.4	2.84	LM, BRN-GY VFXLN DOL SL/ANHY
18	5482.0-83.0	6.40	0.20	11.2	18.0	20.4	2.85	LM, BRN-GY VFXLN DOL SL/ANHY
19	5483.0-84.0	10.	9.00	13.5	14.8	24.1	2.84	LM, BRN-GY VFXLN DOL SL/ANHY
20	5484.0-85.0	12.	4.40	11.0	17.0	25.8	2.85	LM, BRN-GY VFXLN DOL SL/ANHY
21	5485.0-86.0	3.60	2.80	11.7	14.1	20.2	2.85	LM, BRN-GY VFXLN DOL SL/ANHY
22	5486.0-87.0	1.10	*	16.8	19.2	23.1	2.79	LM, BRN-GY VFXLN DOL SL/ANHY
23	5487.0-88.0	6.90	2.80	15.1	19.1	35.7	2.84	LM, BRN-GY VFXLN DOL SL/ANHY STY

CONFIDENTIAL

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or land in connection with which these analyses were performed.

CORE LABORATORIES, INC.
 • Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 2

MARATHON OIL COMPANY
 TIN CUP MESA 3-26

DATE : 09-APR-82
 FORMATION : UPPER ISMAY

CONFIDENTIAL

FILE NO : RP-3-3199
 ANALYSTS : GGIDS

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
24	5488.0-89.0	3.20	3.00	18.4	17.3	30.1	2.82	LM, BRN-GY VFXLN DOL SL/ANHY
25	5489.0-90.0	14.	*	12.0	17.0	30.3	2.87	LM, BRN-GY VFXLN DOL SL/ANHY
26	5490.0-91.0	8.30	*	17.0	17.2	29.3	2.82	LM, BRN-GY VFXLN DOL SL/ANHY
27	5491.0-92.0	0.07	0.01	12.4	14.0	31.6	2.80	LM, BRN-GY VFXLN DOL SL/ANHY STY
28	5492.0-93.0	2.50	1.80	7.6	9.9	34.0	2.80	LM, BRN-GY VFXLN DOL SL/ANHY
29	5493.0-94.0	6.90	6.60	11.9	8.1	28.4	2.80	LM, BRN-GY VFXLN DOL SL/ANHY
30	5494.0-95.0	4.10	*	10.9	11.7	33.4	2.81	LM, BRN-GY VFXLN DOL SL/ANHY
31	5495.0-96.0	3.30	3.30	11.8	9.7	28.0	2.80	LM, BRN-GY VFXLN DOL SL/ANHY
32	5496.0-97.0	6.60	0.31	11.9	10.4	29.8	2.81	LM, BRN-GY VFXLN DOL SL/ANHY
33	5497.0-98.0	0.30	0.21	5.8	13.2	30.2	2.79	LM, BRN-GY VFXLN DOL SL/ANHY
34	5498.0-99.0	2.50	0.01	10.1	6.8	27.1	2.75	LM, BRN-GY VFXLN DOL SL/ANHY
35	5499.0-00.0	4.80	2.90	8.9	9.0	56.8	2.73	LM, BRN-GY VFXLN DOL VUG SL/ANHY
36	5500.0-01.0	10.	8.50	12.3	9.2	52.7	2.74	LM, BRN-GY VFXLN DOL VUG SL/ANHY
37	5501.0-02.0	17.	4.90	11.8	5.1	30.8	2.72	LM, BRN-GY VFXLN DOL VUG SL/ANHY
38	5502.0-03.0	0.05	0.04	15.8	7.0	31.9	2.79	LM, BRN-GY VFXLN DOL VUG SL/ANHY
39	5503.0-04.0	3.00	2.70	12.2	6.6	26.3	2.72	LM, BRN-GY VFXLN DOL VUG SL/ANHY
40	5504.0-05.0	0.09	*	11.7	7.0	36.0	2.71	LM, BRN-GY VFXLN DOL VUG SL/ANHY
41	5505.0-06.0	10.	4.90	12.8	8.7	30.5	2.72	LM, BRN-GY VFXLN DOL VUG SL/ANHY
42	5506.0-07.0	9.10	2.90	11.8	9.1	32.3	2.73	LM, BRN-GY VFXLN DOL VUG SL/ANHY
43	5507.0-08.0	0.04	*	9.5	2.4	4.9	2.75	LM, BRN-GY VFXLN DOL SL/ANHY
44	5508.0-09.0	0.82	0.12	4.6	3.4	27.4	2.78	LM, BRN-GY VFXLN DOL SL/ANHY
45	5509.0-10.0	0.61	0.41	5.5	9.2	38.4	2.80	LM, BRN-GY VFXLN DOL SL/ANHY
46	5510.0-11.0	0.02	*	11.4	10.3	37.8	2.80	LM, BRN-GY DOL SL/ANHY
47	5511.0-12.0	2.30	1.80	21.0	6.6	54.5	2.81	DOL, BRN RTHY LM
48	5512.0-13.0	1.60	1.40	19.8	2.5	63.0	2.88	DOL, BRN RTHY LM
49	5513.0-14.0	0.50	*	22.3	13.7	46.3	2.87	DOL, BRN RTHY LM
50	5514.0-15.0	7.30	6.90	22.0	6.7	34.2	2.84	DOL, BRN RTHY LM
51	5515.0-16.0	6.40	5.80	8.8	3.1	37.0	2.77	LM, BRN-GY VFXLN DOL SL/ANHY
52	5516.0-17.0	0.06	0.02	8.9	11.4	27.7	2.77	LM, BRN-GY VFXLN DOL SL/ANHY
53	5517.0-18.0	3.20	2.60	6.2	24.0	14.7	2.75	LM, BRN-GY VFXLN DOL SL/ANHY

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 3

MARATHON OIL COMPANY
 TIN CUP MESA 3-26

DATE : 09-APR-82
 FORMATION : UPPER ISMAY

CONFIDENTIAL

FILE NO : RP-3-3199
 ANALYSTS : GGIDS

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
54	5518.0-19.0	4.20	1.10	8.4	8.8	35.6	2.75	LM, BRN VFXLN DOL SL/VUG SL/ANHY
55	5519.0-20.0	0.15	*	8.0	7.5	32.1	2.71	LM, BRN-GY VFXLN DOL SL/VUG SL/ANHY
56	5520.0-21.0	0.07	*	5.7	6.4	64.1	2.71	LM, BRN-GY VFXLN DOL SL/VUG SL/ANHY
57	5521.0-22.0	43.	*	7.8	8.9	35.6	2.73	LM, BRN-GY VFXLN DOL SL/VUG SL/ANHY
58	5522.0-23.0	0.50	0.45	6.4	5.2	31.2	2.73	LM, BRN-GY VFXLN DOL SL/VUG SL/ANHY
59	5523.0-24.0	1.80	1.70	6.0	8.5	51.0	2.73	LM, BRN-GY VFXLN DOL SL/VUG SL/ANHY
60	5524.0-25.0	4.50	1.80	9.4	3.1	43.9	2.73	LM, BRN-GY VFXLN DOL SL/VUG SL/ANHY
61	5525.0-26.0	3.70	3.60	5.9	4.4	44.2	2.74	LM, BRN-GY VFXLN DOL SL/ANHY
62	5526.0-27.0	4.20	0.07	5.7	0.0	36.4	2.80	LM, BRN-GY VFXLN DOL SL/ANHY
63	5527.0-28.0	1.60	1.30	3.2	9.2	47.1	2.78	LM, BRN-GY VFXLN DOL SL/ANHY
64	5528.0-29.0	1.10	0.04	3.0	0.0	67.2	2.78	LM, BRN-GY VFXLN DOL SL/ANHY
65	5529.0-30.0	0.31	0.09	6.2	1.8	18.3	2.78	LM, BRN-GY VFXLN DOL SL/ANHY
66	5530.0-31.0	0.89	*	2.0	12.9	25.9	2.79	LM, BRN-GY VFXLN DOL SL/ANHY STY
67	5531.0-32.0	1.20	0.88	1.6	8.7	30.5	2.81	DOL, BRN-GY VFXLN LM SL/ANHY
68	5532.0-33.0	1.50	1.50	4.1	4.1	56.0	2.79	DOL, BRN RTHY SL/LM SL/ANHY
69	5533.0-34.0	0.51	0.48	14.7	6.1	54.2	2.81	DOL, BRN RTHY SL/LM SL/ANHY
70	5534.0-35.0	0.79	*	10.4	4.7	61.9	2.79	DOL, BRN-GY SL/LM SL/ANHY STY
71	5535.0-36.0	0.05	0.05	3.6	77.2	5.5	2.75	DOL, BRN-GY RTHY LM SL/ANHY STY
72	5536.0-37.0	0.09	0.05	4.6	2.5	49.7	2.74	LM, BRN-GY VFXLN DOL SL/ANHY
73	5537.0-38.0	0.14	0.14	5.0	2.1	46.8	2.75	LM, BRN-GY VFXLN DOL SL/ANHY
74	5538.0-39.0	0.30	0.18	4.6	2.4	47.5	2.76	LM, BRN-GY VFXLN DOL SL/ANHY
75	5539.0-40.0	21.	*	20.0	7.1	31.9	2.83	DOL, BRN-GY RTHY
76	5540.0-41.0	2.50	2.20	16.1	16.0	54.8	2.81	DOL, BRN-GY RTHY STY
77	5541.0-42.0	0.01	*	1.0	29.4	35.3	2.71	DOL, BRN-GY RTHY STY
78	5542.0-43.0	0.03	0.03	1.5	33.5	26.8	2.73	LM, BRN-GY VFXLN DOL STY
79	5543.0-44.0	0.01	*	3.0	48.5	27.7	2.77	LM, BRN-GY VFXLN DOL
80	5544.0-45.0	0.12	0.01	1.7	59.0	16.9	2.73	LM, BRN-GY VFXLN DOL
81	5545.0-46.0	0.02	0.01	3.6	46.6	18.6	2.76	LM, BRN-GY VFXLN DOL STY
82	5546.0-47.0	0.03	0.02	1.5	28.4	34.1	2.74	LM, BRN-GY VFXLN DOL STY
83	5547.0-48.0	0.04	*	8.4	1.2	61.1	2.79	LM, BRN-GY VFXLN DOL STY

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Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 4

CONFIDENTIAL

MARATHON OIL COMPANY
 TIN CUP MESA 3-26

DATE : 09-APR-82
 FORMATION : UPPER ISMAY

FILE NO : RP-3-3199
 ANALYSTS : GGIDS

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
84	5548.0-49.0	0.08	0.03	4.8	0.0	63.1	2.77	LM, BRN-GY DOL SL/ANHY
85	5549.0-50.0	0.14	0.10	11.5	0.0	64.2	2.76	LM, BRN-GY DOL SL/ANHY
86	5550.0-51.0	0.50	0.49	8.6	0.0	31.6	2.76	LM, BRN-GY DOL SL/ANHY
87	5551.0-52.0	2.10	2.00	9.6	0.0	56.3	2.74	LM, BRN-GY DOL AL/ANHY
88	5552.0-53.0	3.20	1.90	8.0	0.0	36.2	2.75	LM, BRN-GY DOL SL/ANHY
89	5553.0-54.0	9.50	*	13.1	0.0	9.1	2.79	LM, BRN-GY DOL SL/ANHY
90	5554.0-55.0	6.90	5.90	11.1	0.0	31.0	2.76	LM, BRN-GY DOL SL/ANHY
91	5555.0-56.0	2.80	2.20	8.2	1.4	33.1	2.75	LM, BRN-GY VFXLN DOL SL/ANHY
92	5556.0-57.0	4.90	4.40	10.1	1.1	43.0	2.76	LM, BRN-GY VFXLN DOL SL/ANHY
93	5557.0-58.0	5.50	4.80	7.8	0.0	39.8	2.75	LM, BRN-GY VFXLN DOL SL/ANHY
94	5558.0-59.0	4.60	1.90	8.3	0.0	42.4	2.74	LM, BRN-GY VFXLN DOL SL/ANHY
95	5559.0-60.0	1.10	1.00	7.3	1.5	39.4	2.73	LM, BRN-GY VFXLN DOL SL/ANHY
96	5560.0-61.0	0.73	0.68	6.1	0.0	43.9	2.76	LM, BRN-GY VFXLN DOL SL/ANHY
97	5561.0-62.0	0.69	0.32	5.4	1.6	54.0	2.75	LM, BRN-GY VFXLN DOL SL/ANHY
98	5562.0-63.0	0.84	*	5.6	0.0	37.3	2.75	LM, BRN-GY VFXLN DOL SL/ANHY
99	5563.0-64.0	0.47	0.41	4.0	0.0	44.7	2.75	LM, BRN-GY VFXLN DOL SL/ANHY
100	5564.0-65.0	0.81	0.07	5.7	2.4	38.5	2.75	LM, BRN-GY VFXLN DOL SL/ANHY
101	5565.0-66.0	0.33	0.26	5.3	0.0	54.0	2.75	LM, BRN-GY VFXLN DOL SL/ANHY
102	5566.0-67.0	0.37	0.29	2.8	0.0	52.3	2.76	LM, BRN-GY VFXLN DOL SL/ANHY
103	5567.0-68.0	1.50	*	12.4	0.0	27.7	2.85	DOL, BRN RTHY SL/ANHY
104	5568.0-69.0	1.90	1.10	11.7	1.1	58.3	2.81	DOL, BRN RTHY SL/ANHY
105	5569.0-70.0	0.09	*	16.4	0.9	59.3	2.80	DOL, BRN RTHY SL/ANHY
106	5570.0-71.0	0.02	*	5.0	0.0	77.9	2.77	DOL, BRN RTHY SL/ANHY
107	5571.0-72.0	0.04	0.02	3.2	0.0	71.1	2.74	DOL, BRN RTHY SL/ANHY
108	5572.0-73.0	2.70	2.60	17.5	1.1	64.9	2.79	DOL, BRN RTHY SL/ANHY
109	5573.0-74.0	1.40	0.62	17.2	1.2	67.7	2.78	DOL, BRN RTHY SL/ANHY
110	5574.0-75.0	0.02	*	6.1	0.0	70.1	2.80	DOL, BRN RTHY SL/ANHY
111	5575.0-76.0	0.02	0.01	3.6	22.8	54.7	2.75	LM, BLK VFXLN SH
112	5576.0-77.0	0.01	0.01	2.7	37.0	49.6	2.70	SH, BLK VFG LM
	5577.0-14.0							SHALE--NO ANALYSIS

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Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 5

CONFIDENTIAL

MARATHON OIL COMPANY
TIN CUP MESA 3-26

DATE : 09-APR-82
FORMATION : UPPER ISMAY

FILE NO : RP-3-3199
ANALYSTS : GGIDS

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
113	5614.0-15.0	0.01	*	3.8	0.0	48.2	2.75	LM, BLK VFXLN SH

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

COMPANY MARATHON OIL COMPANY

FILE NO. RP-3-3199

WELL TIN CUP MESA 3-26

DATE 09-APR-82

FIELD WILDCAT

FORMATION UPPER ISMAY

ELEV. 5100

COUNTY SAN JUAN STATE UTAH

DRLG. FLD. WATER BASE MUD

CORES

LOCATION NW NE SEC 26-38S-25E

CORRELATION COREGRAPH

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VERTICAL SCALE: 5" = 100'

CONFIDENTIAL

Total Water

PERCENT PORE SPACE

100 80 60 40 20 0

Oil Saturation

PERCENT PORE SPACE

0 20 40 60 80 100

Gamma Ray

RADIATION INCREASE

Permeability

MILLIDARCIES

Porosity

PERCENT

100 10 1.0 .1 Depth Feet 30

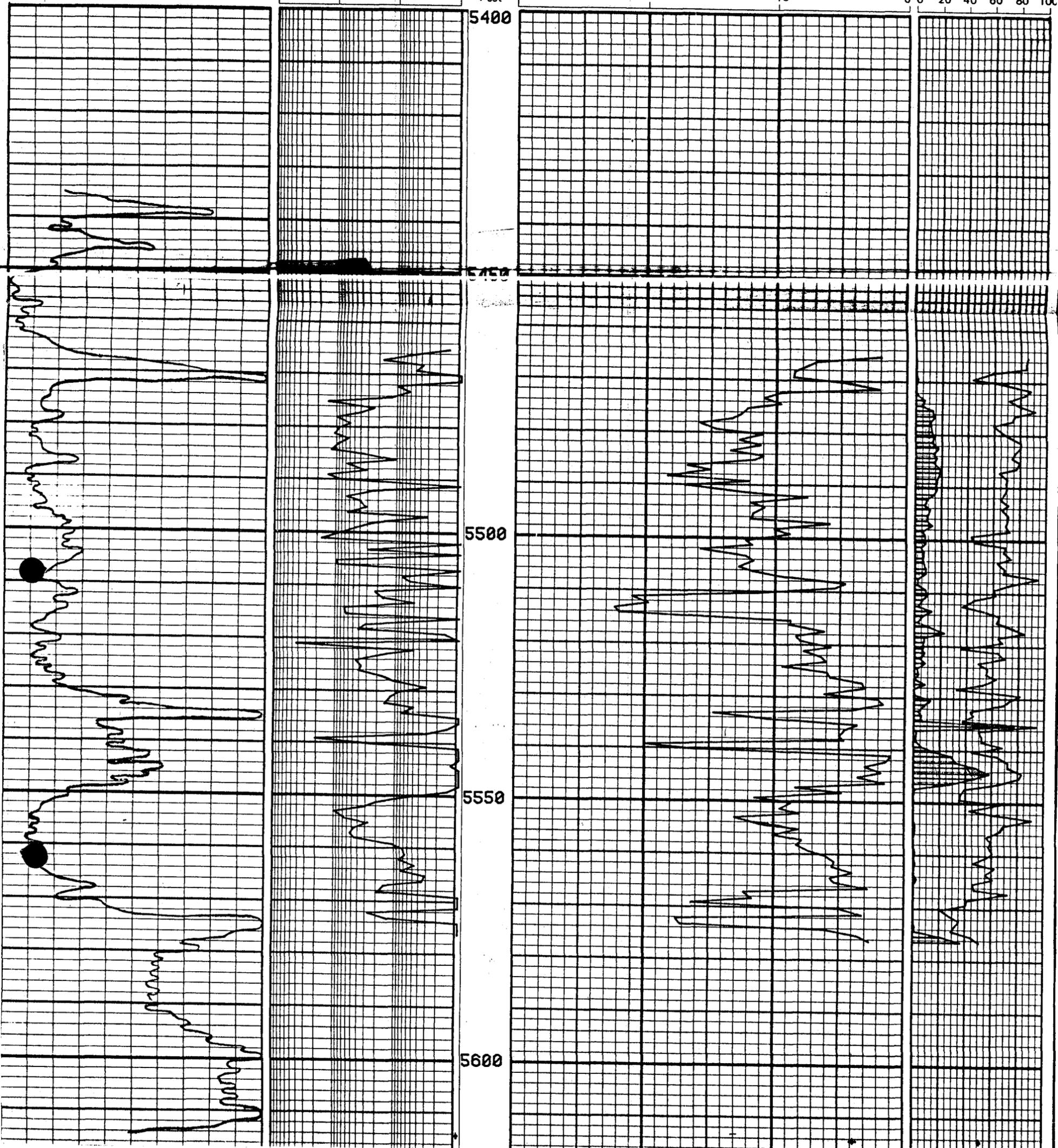
5400

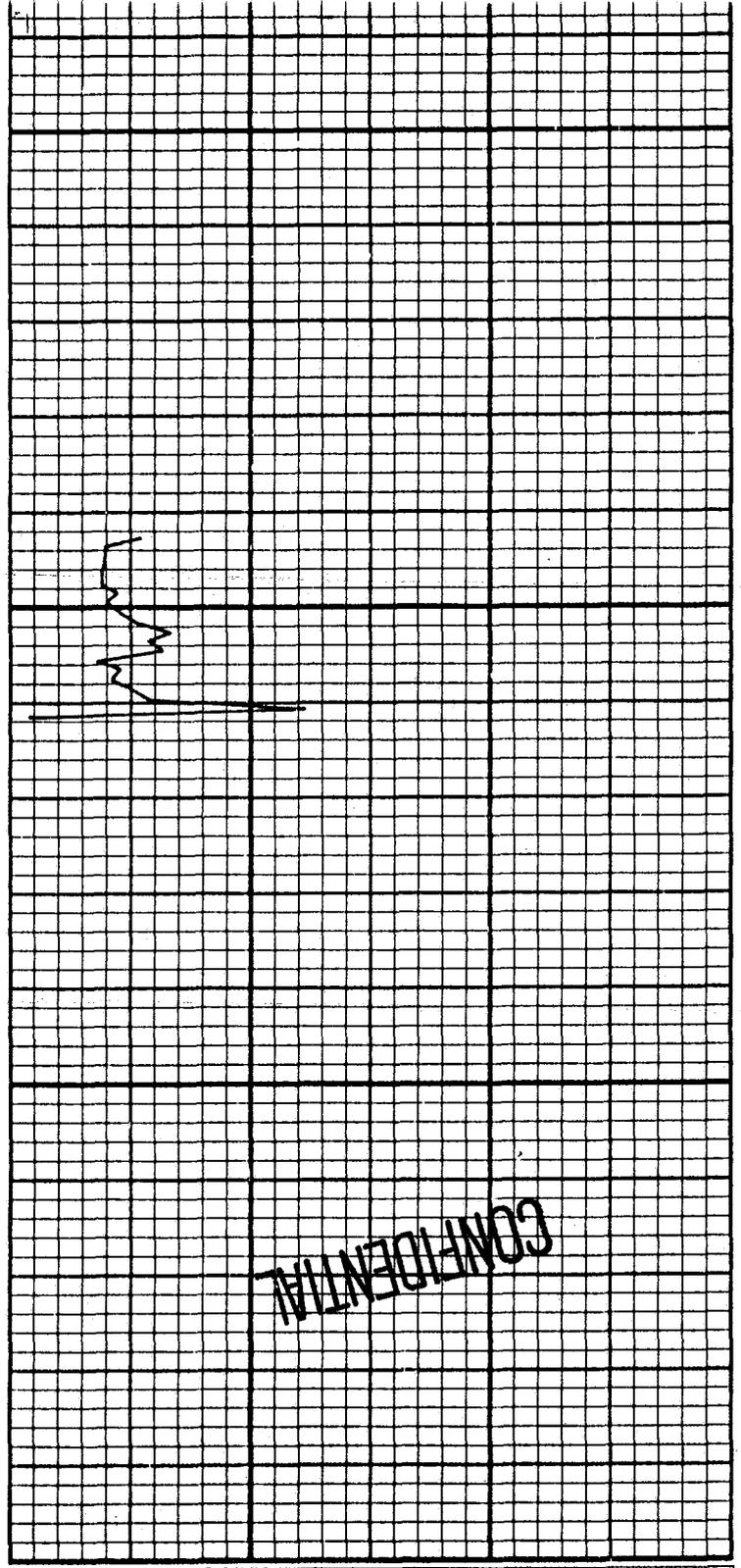
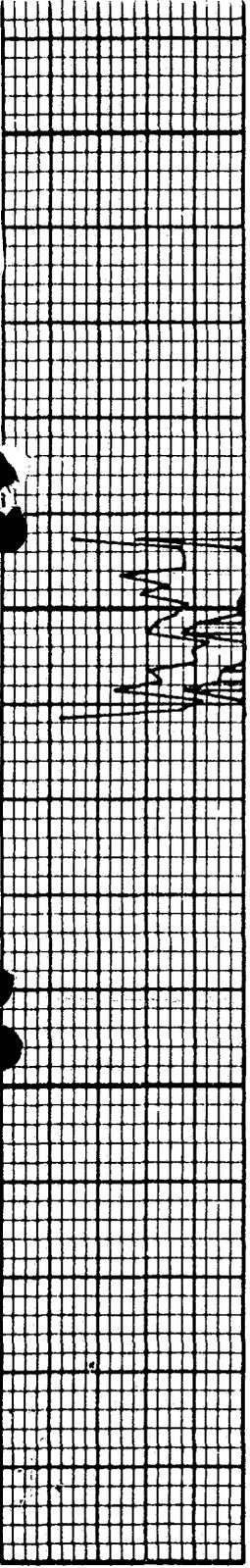
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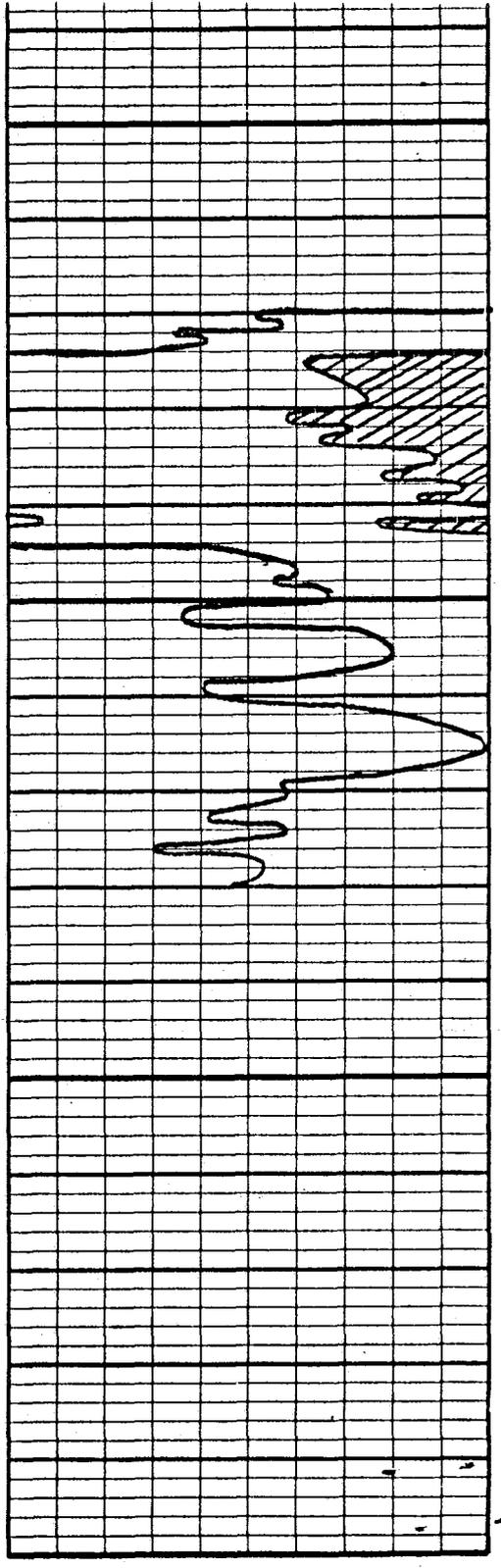
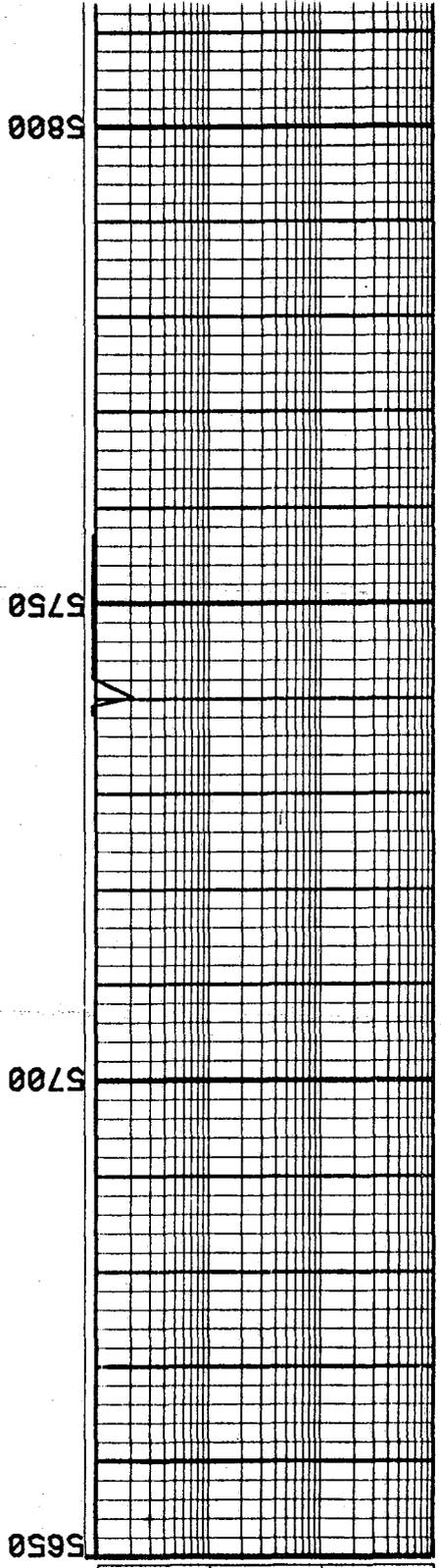
5550

5600





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5650

5700

5750

5800

CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS

CORE 4

CONFIDENTIAL

PAGE 5

MARATHON OIL COMPANY
 TIN CUP MESA 3-26

DATE : 09-APR-82
 FORMATION : ~~UPPER ISMAY~~ Lower Desert Creek

FILE NO : RP-3-3199
 ANALYSTS : GGIDS

FULL DIAMETER ANALYSIS--BOYLE'S LAW POROSITY

PRELIMINARY REPORT

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
113	5614.0-15.0	0.01	*	3.8	0.0	48.2	2.75	LM, BLK VFXLN SH
	5615.0-20.0							DRILLED INTERVAL
	5720.0-23.0							LIMESTONE--NO ANALYSIS
	5723.0-32.0							LIMESTONE/ANHYDRITE--NO ANALYSIS
	5732.0-38.0							ANHYDRITE--NO ANALYSIS
114	5738.0-39.0	0.02	<0.01	0.8	0.0	23.2	2.91	ANHY, LTGY VFXLN LMY
115	5739.0-40.0	0.03	*	12.2	0.0	74.1	2.71	LM, BRN RTHY DOL
116	5740.0-41.0	0.20	*	5.7	0.0	81.5	2.74	LM, BRN RTHY DOL
117	5741.0-42.0	0.13	0.12	5.0	25.8	45.9	2.72	LM, BRN RTHY DOL SL/SHY
118	5742.0-43.0	0.07	0.04	4.2	11.0	65.9	2.74	LM, BRN-GY VFXLN DOL
119	5743.0-44.0	0.02	*	4.5	9.9	59.3	2.73	LM, BRN-GY VFXLN DOL
120	5744.0-45.0	0.04	0.04	3.6	0.0	79.2	2.75	LM, BRN-GY VFXLN DOL
121	5745.0-46.0	0.01	*	6.3	0.0	77.1	2.76	LM, BRN-GY VFXLN DOL
122	5746.0-47.0	0.01	*	5.7	0.0	84.8	2.70	LM, BRN-GY VFXLN DOL
123	5747.0-48.0	0.01	*	6.6	26.0	59.4	2.75	LM, BRN-GY VFXLN DOL SL/SHY
124	5748.0-49.0	0.04	0.03	5.1	18.9	62.9	2.72	LM, BRN-GY VFXLN DOL SL/SHY
125	5749.0-50.0	0.01	*	4.5	2.8	71.7	2.71	LM, BRN-GY VFXLN DOL SL/SHY
126	5750.0-51.0	0.02	0.02	4.0	3.2	76.4	2.73	LM, BRN-GY VFXLN DOL SL/SHY
127	5751.0-52.0	0.02	*	4.4	0.0	56.9	2.72	LM, BRN-GY VFXLN DOL
128	5752.0-53.0	0.01	*	3.7	0.0	68.3	2.72	LM, BRN-GY VFXLN DOL
129	5753.0-54.0	0.01	*	3.7	0.0	48.4	2.73	LM, BRN-GY VFXLN DOL
130	5754.0-55.0	<0.01	*	3.8	0.0	75.1	2.73	LM, BRN-GY VFXLN DOL
131	5755.0-56.0	0.01	*	3.9	0.0	73.7	2.73	LM, BRN-GY VFXLN DOL
132	5756.0-57.0	0.03	*	3.9	4.6	73.2	2.70	LM, BRN-GY VFXLN DOL
133	5757.0-58.0	<0.01	*	5.4	45.4	28.7	2.60	LM, DKGY VFXLN SHY
	5758.0-78.0							SHALE--NO ANALYSIS
	5778.0-80.0							LIMESTONE--NO ANALYSIS

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

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 Drilling

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 500' FNL & 2,125' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
3-26

10. FIELD OR WILDCAT NAME
Tin Cup Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26, T38S, R25E

12. COUNTY OR PARISH San Juan 13. STATE Utah

14. API NO.
43-037-30762

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,101' G.L., 5,114' K.B.

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

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

(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.)*

See Attachments.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
 DATE: 4/15/82
 BY: [Signature]

RECEIVED
APR 12 1982

DIVISION OF OIL, GAS & MINING

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

18. I hereby certify that the foregoing is true and correct District _____
 SIGNED Dale T. Cuddy by MEK TITLE Operations Manager DATE 4-7-82

(This space for Federal or State office use)

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

DRILLING OPERATION PLAN AMENDMENT

The amended casing program does not include the intermediate string of 9-5/8" casing which was planned earlier. The amended program appears as follows:

<u>STRING</u>	<u>HOLESIZE</u>	<u>CASING O.D.</u>	<u>SETTING DEPTH</u>	<u>WT. GRADE AND COUPLING</u>	<u>SECTION LENGTH</u>
Conductor	26"	20"	60'	Thinwall	60'
Surface	17-1/2"	13-3/8"	1,200'	54.5#,K-55,STC	1,200'
Production	8-3/4"	7"	4,300'	23#,K-55,STC	4,300'
	8-3/4"	7"	5,914'	26#,K-55,STC	1,614'

After cementing the 13-3/8" surface string, the shoe will be tested to 12.5#/gal equivalent or leakoff, whichever occurs first.

Attached is the casing design sheet giving the complete casing data and safety factors.

Tincup Mesa #3-26
CASING DESIGN

DESIGN FACTORS:

$F_c = 1.125$ Pipe evacuated w/normal MW + .5 ppq. Consider collapse reduction due to tension.

$F_b = 1.250$ The greater of: 1. Normal MW in annulus. Bottom hole pressure - .10 ppf gas gradient in gas filled pipe.

$F_t = 1.50$. No buoyancy. 2. Normal MW in annulus. Maximum surface treating pressure + Hydrostatic of treating fluid.

CASING	API/NON-API DRIFT	SETTING DEPTH	SECTION LENGTH	TENSION - 1,000 lb.			COLLAPSE				BURST		
				STRENGTH	FORCE	S. F.	STRENGTH	FORCE	REDUCED STRENGTH	S.F.	STRENGTH	FORCE	S.F.
Surface Casing (Same as last amendment) 3-3/8", K-55, 54.5#, STC	12.359	1,200'	1,200'	547	73	7.5	1,130	580	NA	1.95	2,730	2,380	1.15
Production Casing (Same as original design, 1/12/82) ", K-55, 23#, STC	6.241	4,300'	4,300'	309	114	2.7	3,270	2,838	3,231	1.138	4,360	2,859	1.525
", K-55, 26#, STC	6.151	5,914'	1,614'	364	13	10	4,320	3,905	4,450	1.139	4,980	1,426	3.49

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Confidential

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.)

5. LEASE U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Tin Cup Mesa
9. WELL NO. 3-26
10. FIELD OR WILDCAT NAME Tin Cup Mesa
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 26, T38S, R25E
12. COUNTY OR PARISH San Juan
13. STATE Utah
14. API NO. 43-037-30762
15. ELEVATIONS (SHOW DF, KDB, AND WD) 5,101' GL, 5,114' KB

1. oil well gas well other **Drilling**

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) **500' FNL & 2,125' FEL**
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

(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.)*

RECEIVED
APR 23 1982

From: 3-18-82 to: 4-4-82

**DIVISION OF
OIL, GAS & MINING**

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

18. I hereby certify that the foregoing is true and correct.
SIGNED *ME Kung* TITLE Drilling Superintendent DATE 4-19-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINGUP MESA #3-26

- 3-18-82 70' MADE 10' IN JURASSIC MORRISON FORMATION. MW WTR. MOVE IN RIG UP, SPUD WELL @ 4 AM.
- 3-19-82 540' MADE 470' IN MORRISON FORMATION. MW 8.7, VIS 40. DRLD TO 540', NO PROB.
- 3-20-82 1,220' MADE 680' IN KAYENTA FORMATION. MW 8.8, VIS 41. DRLD TO 1,220' W/NO PROBLEMS. START POH HAD TIGHT HOLE. WORK TIGHT SPOTS. PRESENTLY POH.
- 3-21-82 1,220'-12-1/4", 313'-17-1/2" IN KAYENTA FORMATION. MW 8.9, VIS 35. BIT NO 1, 12-1/4", SEC, 284F129973, JETS 12/12/12, DEPTH IN 60', DEPTH OUT 1,220', 1,160 FT, 42-1/2 HRS, 27.3 FT/HR, CONDITION 2/3/I, REMARKS: PULL F/H.O. OPEN HOLE F/12-1/4" TO 17-1/2" TO 100'. SWIVEL LEAKING, PACK SWIVEL OPEN HOLE TO 373'. POH, CHANGE CUTTERS ON H.O.
- 3-22-82 1,220'-12-1/4", 630'-17-1/2" IN KAYENTA FORMATION. MW 8.9, VIS 37. OPEN 17-1/2" HOLE TO 550'.
- 3-23-82 1,225' MADE 595' IN KAYENTA FORMATION. MW 9.0, VIS 49. OPEN 17-1/4" HOLE TO 1,225' CIRC & SHORT TRIP. RUN 13-3/8" CSG W/SHOE @ 1,224'. NO CENTRALIZERS: 3. CENTRALIZERS SPACED @ MIDDLE OF SHOE JT, 1ST & 3RD JT ABOVE FLOAT COLLAR. 1ST STAGE: CMTD CSG W/800 SX OF CLASS LITE POZ 300 W/1/4#/SK COLLOPHANE FLAKES, 2% CACL2 FOLLOWED BY 400 SX CLASS "B" W/1/4#/SK CELLOPHANE FLAKES, 2% CACL2. USED 100% EXCESS VOLUME THEN 10 BBLs WTR AHEAD. SLURRY WT 13#/GAL; 15.6#/GAL. DISPL PLUG W/WTR W/DOWELL PUMP. CIRC'D 193 BBLs CMT TO SURF.
- 3-24-82 1,225' MADE 0' IN KAYENTA FORMATION. MW 9.0, VIS 40. RU CSG CREW & RAN 31 JTS 13-3/8", 54.5#, K-55 CSG W/SHOE @ 1,224'. CIRC 1 HR. DOWELL PMPD 800 SX LITE POZ 300, 400 SX CLASS "B". PLUG DOWN @ 2:30 PM. CIRC 193 BBLs CMT TO SURF.
- 3-25-82 1,225' MADE 0' IN KAYENTA FORMATION. NU & TEST BOP W/YELLOW JACKET.
- 3-26-82 1,450' MADE 225' IN WINGATE FORMATION. MW 8.9, VIS 40. BIT NO 2, 12-1/4", SEC, S4T 983797, JETS 11/11/16, DEPTH IN 1,225', DEPTH OUT 1,230, 5 FT, 1/2 HR, COND 2/3/I, REMARKS: DRLD SHOE. PU BHA, TAG FLT CLR @ 1,182'. TEST CSG TO 1500 PSI F/15 MIN. DRLD OUT FLT CLR, SHOE JT, SHOE, & 5' FORMATION. SHOE TEST FORMATION TO 13 PPG. POH. PU 8-3/4" BIT, IBS, 6-6-1/8" DC'S. RIH. DRLG.

TINCUP MESA #3-26

- 3-27-82 2,624' MADE 1,174' IN CUTLER FORMATION. MW 9.0, VIS 40. DRLG AHEAD.
- 3-28-82 3,060' MADE 436' IN CUTLER FORMATION. MW 10.4, VIS 37. DRLG. 2" WTR FLOW @ 3,048'. PULLED 4 STNDS & SWI. BUILD MW TO 10+ PPG. PMP KILL WT MUD OF 10.4 PPG & KILLED FLOW. DRLG AHEAD.
- 3-29-82 3,204' MADE 144' IN CUTLER FORMATION. MW 10.4, VIS 47. BIT NO 3, 8-3/4" SMITH, F-2, JETS 11/12/B, DEPTH IN 1,230', DEPTH OUT 3,120', 1,890 FT, 37 HRS, 51.1 FT/HR, CONDITION 8/F/1/8. DRLD TO 3,120'. CIRC & COND MUD. POH. RIH, DRLG AHEAD, NO PROB.
- 3-30-82 3,584' MADE 380' IN CUTLER FORMATION. MW 10.1, VIS 47. DRLD TO 3,385' MISRUN ON SURVEY. DRLG, NO PROB.
- 3-31-82 3,956' MADE 372' IN CUTLER FORMATION. MW 10.1, VIS 47. DRLG.
- 4-1-82 4,237' MADE 281' IN CUTLER FORMATION. MW 10.3, VIS 38. DRLD TO 4,100'. DISPERSED MUD. PULLED 20 STNDS, SHORT TRIP OK. DRLG AHEAD.
- 4-2-82 4,420' MADE 183' IN HONAKER TRAIL FORMATION. MW 10.6, VIS 42. BIT N9 4, 8-3/4", REED, H551 959596, JETS 14/14/B, DEPTH IN 3,120', DEPTH OUT 4,350', 1,230' FT, 77-3/4 HRS, 16 FT/HR, CONDITION 8/F/1/4. DRLD TO 4,350'. CIRC BU. HAD 1-1/2" WTR FLOW, RAISE MW TO 10.8 PPG. DRLG AHEAD.
- 4-3-82 4,708' MADE 288' IN HONAKER TRAIL. MW 10.8, VIS 40. DRLD TO 4,590'. HAD 1" WTR FLOW. RAISE MW TO 10.8 PPG. DRLD AHEAD.
- 4-4-82 4,950' MADE 242' IN HONAKER TRAIL. MW 10,8, VIS 42. DRLD TO 4,769'. SHORT TRIP 10 STDS. PRESENTLY DRLG AHEAD.

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 gas
well well other Drilling

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
500' FNL & 2,125' FEL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
3-26

10. FIELD OR WILDCAT NAME
Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26, T38S, R25E

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

14. API NO.
43-037-30762

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,110' GL, 5,114' KB

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

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON*
- (other) Progress Report

SUBSEQUENT REPORT



APR 26 1982

(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.)*

Sirs:

We would like all information concerning the above-captioned well to be held CONFIDENTIAL for such time period as prescribed by State and Federal law.

Thank you.

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

18. I hereby certify that the foregoing is true and correct.
SIGNED M. E. Kuygh TITLE Drilling Superintendent DATE 4-20-82

(This space for Federal or State office use)

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

CONFIDENTIAL

*See Instructions on Reverse Side

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.)

5. LEASE
U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
3-26

10. FIELD OR WILDCAT NAME
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12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

14. API NO.
43-037-30762

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,101' GL, 5,114' KB

Confidential

1. oil well gas well other Drilling

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 500' FNL & 2,125' FEL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

(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.)*

RECEIVED
MAY 03 1982

From: 4-5-82 To: 4-18-82

DIVISION OF
OIL, GAS & MINING

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

18. I hereby certify that the foregoing is true and correct.
SIGNED M E Kueh AG. TITLE Drilling Superintendent DATE 4-30-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #3-26

- 4-12-82 5,555' MADE 40' IN UPPER ISMAY FORMATION. MW 10.9, VIS 44. CORED #2: 60' POH. LD CORE. RIH, CIRC 2 HRS. POH F/DST #2. PU DST TOOLS & RIH. CORE DESCRIPTION: GOOD OIL STAIN & ODOR; 08-15 DOLOMITE, GOOD STAIN; 16-26 LIMESTONE, GOOD STAIN; 26-32 LIMESTONE & DOLOMITE, GOOD STAIN; 32-47 DOLOMITE, NO SHOWS; 47-55 LIMESTONE, GOOD OIL STAIN.
- 4-13-82 5,583' MADE 28' IN UPPER ISMAY FORMATION. MW 10.5, VIS 61. FIN RIH. SET BTM PKR @ 5,493'. IF 15 MIN-GOOD BLOW 0-30 PSI. ISI 1 HR GAS TO SURF 3 MIN INTO ISI. FF 2 HRS. PRESS INC 20 PSI-160 PSI IN 30 MIN, TO 200 PSI IN 60 MIN, TO 260 PSI 120 MIN & CLIMBING SLOWLY THRU 1/8" CHOKE W/3-4' FLARE. FSI 4 HRS, REV OUT 10 BO. POH, LD DST. PU CORE BBL & RIH CORED #3 5,555-5,583'. DST #2 DATA: UPPER BOMB @ 5,475'. IF 190-325 PSI; FF 352-1,350 PSI; ISI 2,093 PSI; IHP 3,162 PSI; FSI 2,080; FHP 3,149 PSI; LOWER BOMB @ 5,551; IF 217-381 PSI; FF 353-1,891 PSI; ISI 2,093 PSI; FSI 2,107; IHP 3,246 PSI; FHP 3,191 PSI; BHT 130°; SAMPLE CHAMBER 5.5 CU FT GAS, 1,400 CC OIL, 400 PSI.
- 4-14-82 5,675' MADE 92' IN LOWER ISMAY FORMATION. MW 10.8, VIS 70. BIT NO COREHEAD #1 & CORE #3, 8-3/4", CHRIST, MC20, TFA .40, DEPTH IN 5,555', DEPTH OUT 5,615', 60 FT, 10 HRS, 6 FT/HR, REMARKS: RE-RUNABLE. CORE #3-CUT 60' F/5,555'-5,615'. POH, LD CORE. RIH. DRLG AHEAD.
- 4-15-82 5,766' MADE 91' IN DESERT CREEK FORMATION. MW 10.9, VIS 52. BIT NO 7, 8-3/4", STC, F-3 CE5522, JETS 11/12/12, DEPTH IN 5,615', DEPTH OUT 5,720', 105 FT, 11-3/4 HRS, 8.5 FT/HR, CONDITION 2/E/I, REMARKS: PULLED. DRLD TO 5,720', CIRC & COND HOLE. POH UP CORE BBL. RIH, CIRC BTMS UP CUT 46' OF CORE #4.
- 4-16-82 5,780' MADE 14' IN AKAH FORMATION. MW 10.9, VIS 55. BIT NO CORE #4, 8-3/4", CHRIST, CE5522 MC-20, TFA .40, DEPTH IN 5,720', DEPTH OUT 5,780', 60 FT, 10-1/4 HRS, 5.9 FT/HR, CONDITION GOOD. FIN CORING # 4. CIRC & COND HOLE, SHORT TRIP 10 STNDS, OK. CIRC & COND HOLE. POH, RIG SCHLUMBERGER & LOG. RAN DLL-MICRO FFL GAMMA RAY. PRESENTLY RUNNING CCL-FDC GAMMA RAY. CORE #4 DISCRIPTION: 5,720-23 DOL & LIMESTONE, 23-25 ANHYDRITE W/DOL STRINGERS, 25-33 DOL & ANHY, 33-39 ANHYDRITE, 39-42.5 DOL & LM STONE, 42.5-47 PHOS LM ST, 47-49 DOL SHALE, 49-57 PHOS LM ST, 57-78 DOL & SHALE (CHIMNEY ROCK), 78-80 LIMESTONE. RECOVERED 60' OF CORE TIGHT W/NO STAIN.
- 4-17-82 5,780' MADE 0' IN AKAH FORMATION. MW 11.0, VIS 45. FIN RUNNING CNL-FDC GAMMA RAY LOG THEN RAN BHC SONIC GAMMA RAY & CYBERLOOK CORIHAND. RIH. CIRC & COND HOLE, LD DP & DC'S. RIG CSG CREW. PRESENTLY RUNNING 7", K-55 CSG.
- 4-18-82 5,780' MADE 0' IN AKAH FORMATION. MW 10.8, VIS 46. FIN RUNNING 23# & 26# K-55, 7" CSG. SET SHOE @ 5,775', FLOAT CLR @ 5,693', & STAGE CLR @ 4,004'. CIRC CSG 2-1/2 HRS. DOWELL PMPD 450 SX CLASS "H" W/18% SALT & .5% FL ADDITIVE. DROP PLUG & DISP W/223 BBLs MUD. BUMP PLUG @ 1:00 PM W/2,000 PSI, FLOAT EQUIP HELD OK. DROP BOMB & OPEN STAGE CLR. CIRC STAGE CLR 4 HRS. NO CMT TO SURF WHILE CIRC. CMT 2ND STAGE W/770 SX OF LITE POZ 300. DROP PLUG & DISP W/58 BBLs MUD, CLOSE STAGE CLR W/2,500 PSI @ 7:15 PM. CIRC 20 BBLs CMT CATAMINATED MUD TO SURF. N/D BOPE, SET SLIPS W/120,000# TENSION. CUT 7" CSG, N/U WELL HEAD & TEST 1,800 PSI, OK. PRESENTLY N/U BOPE FOR 2-7/8" TBG.

TINCUP MESA #3-26

- 4-5-82 5,073' MADE 123' IN HONAKER TRAIL. MW 10.8, VIS 46. DRLD TO 5,048'. SHORT TRIP 20 STDS OK. DRLG AHEAD W/NO PROB 4-5 FT/HR.
- 4-6-82 5,158' MADE 85' IN HONAKER TRAIL. MW 10.8, VIS 43. BIT NO 5, 8-3/4", SEC 959242, S84F, JETS 14/14/B, DEPTH IN 4,350', DEPTH OUT 5,075', 725 FT, 71 HRS, 10.1 FT/HR, CONDITION 6/E/I, REMARKS: OUTSIDE RAN OF BUTTONS BROKE ON EACH CONE. DRLD TO 5,075'. PUMP PRESS DROPPED TO 1,300 PSI. POH. FOUND WASHED OUT DC. DRLG AHEAD.
- 4-7-82 5,325' MADE 167' IN PARADOX FORMATION. MW 10.8, VIS 47. DRLG AHEAD.
- 4-8-82 5,435' MADE 110' IN UPPER ISMAY FORMATION. MW 10.9, VIS 52. BIT NO 6, 8-3/4", HTC SF773, J33H, JETS 11/12/12, DEPTH IN 5,075', DEPTH OUT 5,435', 360 FT, 51 HRS, 7.1 FT/HR, CONDITION 4/F/I. DRLD TO 5,435'. CIRC & POH SLM PU CORE BBL & RIH, SHOW 5,380-5,400'. 1 UNIT OF INC OF GAS & FLUOR IN CUT.
- 4-9-82 5,495' MADE 60' IN UPPER ISMAY FORMATION. MW 11.0, VIS 70. BIT NO CORE HEAD #1, 8-3/4", CHRIST 2W7099, MC20, JETS TFA .40, DEPTH IN 5,435', DEPTH OUT 5,495', 60 FT, 7-1/4 HRS, 8.3, CONDITION GOOD. CORE #1 CUT 60' POH. LD CORE. RIH W/BIT. COND HOLE F/DST #1. CORE #1: 5,435-5,441 ANHYDRITE & SHALE, 5,441-5,465 ANHYDRITE, 65-95 LIMESTONE & DOLOMITE.
- 4-10-82 5,495' MADE 0' IN UPPER ISMAY FORMATION. MW 10.9, VIS 47. CIRC F/DST #1. POH. PU DST & RIH OPEN TOOL @ 6:30 AM. *ATTEMPTED TO CONTACT USGS PERSONNEL @ HOME PHONES & OFFICE WITHOUT SUCCESS.
- 4-11-82 5,515' MADE 20' IN UPPER ISMAY FORMATION. MW 11.0, VIS 53. DST #1: BTM PKR @ 5,450', NO WTR CUSH. IF-15 MIN. GAS TO SURF IN 14 MIN, FLWG 17 PSI THRU 1/8" CHOKE. ISI-1 HR. FINAL FLOW-2 HR GAS BURING 8' FLARE PRESS INC 23 PSI TO 38 PSI & DEC TO FINAL 25 PSI. FSI-4 HR, DROP BAR, REV OUT 50 BBL OIL. BHT-126, SAMPLE CHAMBER HAD 1,400 PSI, 600 CC OIL & 10.261 CU FT OF GAS. GOR OF 2,715 CU FT/BBL. BTM CHART @ 5,492'. HP-3,230 PSI, IF MAX 190 PSI, FF MAX 488 PSI. LD DST TOOLS.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 500' FNL & 2,125' FEL
At top prod. interval reported below
At total depth

14. PERMIT NO. 43-037-30762 DATE ISSUED 2-19-82

RECEIVED
MAY 07 1982
DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Tin Cup Mesa

9. WELL NO.

3-26

10. FIELD AND POOL, OR WILDCAT

Tin Cup

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

Sec. 26, T38S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPUDDED 3-18-82 16. DATE T.D. REACHED 4-15-82 17. DATE COMPL. (Ready to prod.) 4-27-82 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 5,114' KB 19. ELEV. CASINGHEAD 5,101' GL

20. TOTAL DEPTH, MD & TVD 5,780' 21. PLUG, BACK T.D., MD & TVD 5,695' 22. IF MULTIPLE COMPL., HOW MANY* -- 23. INTERVALS DRILLED BY -- ROTARY TOOLS 0' -- CABLE TOOLS None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Ismay 5,504' - 5,524' 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Schlumberger Coriband, BHC, DLL - MSFL, CNL, FDC 27. WAS WELL CORED Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5	1,224'	12-1/4"	1,200 sacks	None
7"	26, 23, 20	5,774'	8-3/4"	1,200 sacks	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
		None			2-7/8"	5,415'	5,436'

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number) 5,504'-5,524', w/4 - 13 gram SPF

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

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

CONFIDENTIAL

33.* PRODUCTION

DATE FIRST PRODUCTION 4-27-82 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or Shut-in) Shut-in

DATE OF TEST 4-27-82 HOURS TESTED 24 CHOKE SIZE 21/64" PROD'N. FOR TEST PERIOD 528 OIL—BBL. 528 GAS—MCF. 401 WATER—BBL. 0 GAS-OIL RATIO 759

FLOW. TUBING PRESS. 450 psi CASING PRESSURE 0 psi CALCULATED 24-HOUR RATE 528 OIL—BBL. 528 GAS—MCF. 401 WATER—BBL. 0 OIL GRAVITY-API (CORR.) 43.6°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Will be conserved - our management decision will be forthcoming TEST WITNESSED BY Ray Rosenthal (MOC)

35. LIST OF ATTACHMENTS None

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

SIGNED Rak Caddy TITLE District Operations Manager DATE 5-5-82

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

All logs, core analysis and DST's were mailed to MMS, and State of Utah this date, 5-5-82.

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 38, 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.
Chinle	1,575'	2,374'	
Schinavamp	2,374'	2,428'	
Moenkopi	2,428'	2,494'	
Cutler	2,494'	4,334'	
Honaker Trail	4,334'	5,274'	
Paradox	5,274'	5,429'	
Upper Ismay	5,429'	5,578'	
Hovenweep	5,578'	5,616'	
Lower Ismay	5,616'	5,663'	
Gothic	5,663'	5,682'	
Desert Creek	5,682'	5,757'	
Chimney Rock	5,757'	5,778'	
Akah	5,778'	5,780' TD	

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Chinle	1,575'	
Schinavamp	2,374'	
Moenkopi	2,428'	
Cutler	2,494'	
Honaker Trail	4,334'	
Paradox	5,274'	
Upper Ismay	5,429'	
Hovenweep	5,578'	
Lower Ismay	5,616'	
Gothic	5,663'	
Desert Creek	5,682'	
Chimney Rock	5,757'	
Akah	5,778'	

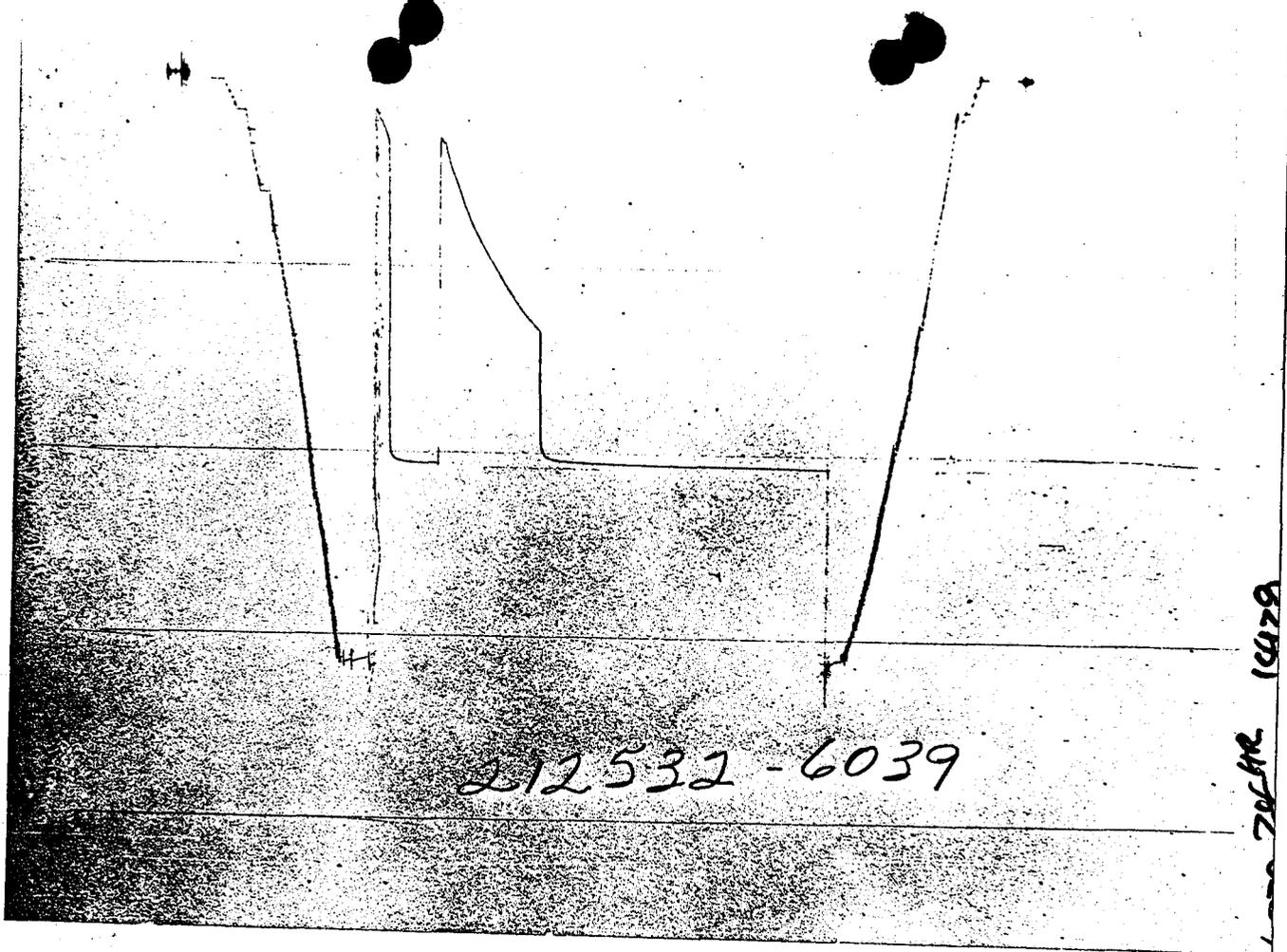
CONFIDENTIAL



TICKET NO. 21253200
20-APR-82
FARMINGTON

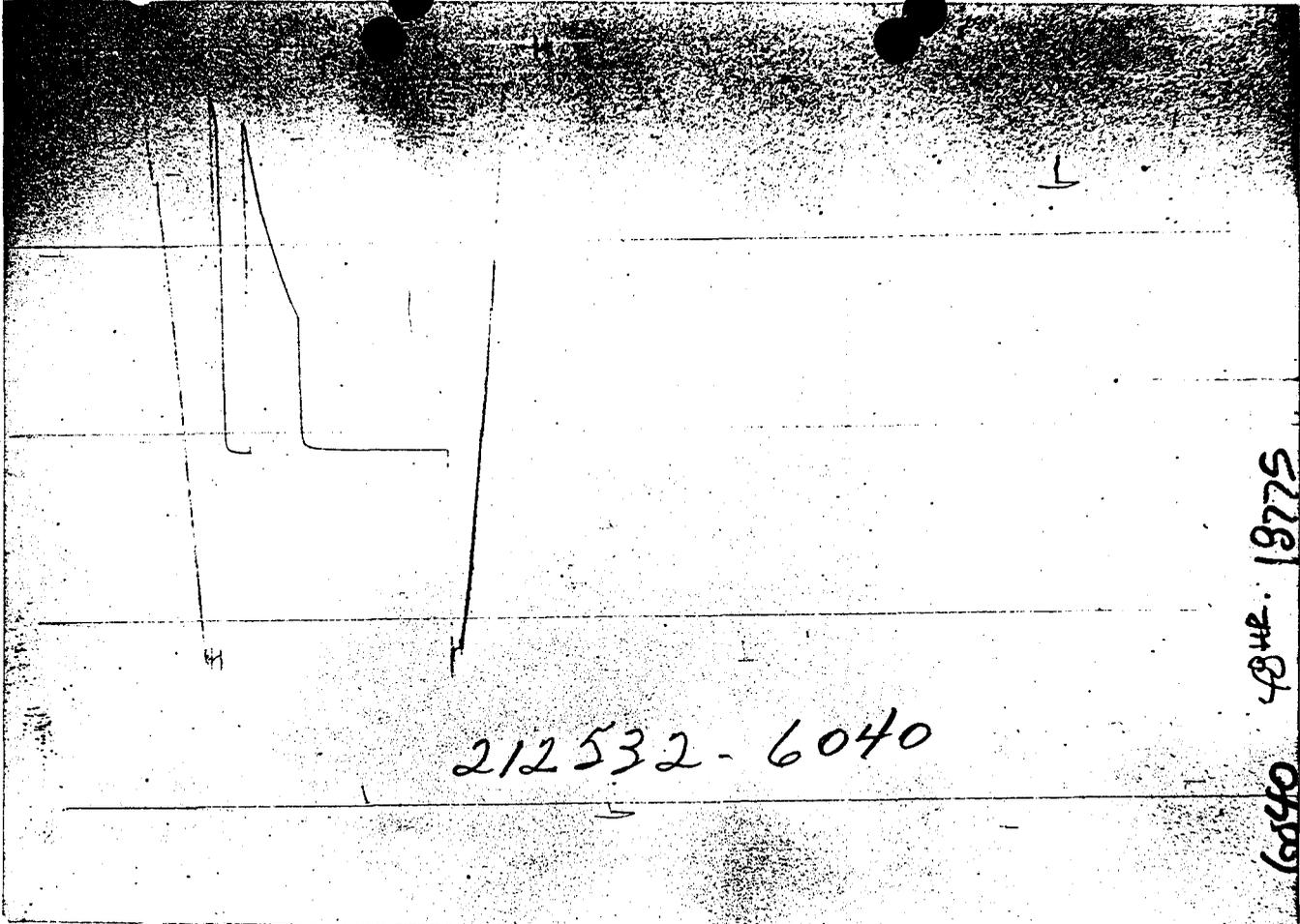
FORMATION TESTING SERVICE REPORT

TIN CUP MESA	30-26	2	5493.1 - 5555.1	MARATHON OIL COMPANY
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION	26-385-25E	FIELD AREA	WILDCAT	COUNTY
SEC. - TYP. - RNG.				SAN JUAN
				STATE UTAH
				IC SM



GAUGE NO: 6039 DEPTH: 5472.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		3142.9			
B	INITIAL FIRST FLOW		182.7			
C	FINAL FIRST FLOW		349.2	16.0	14.7	F
C	INITIAL FIRST CLOSED-IN		349.2			
D	FINAL FIRST CLOSED-IN		2078.6	60.0	60.1	C
E	INITIAL SECOND FLOW		334.8			
F	FINAL SECOND FLOW		1361.6	121.0	122.1	F
F	INITIAL SECOND CLOSED-IN		1361.6			
G	FINAL SECOND CLOSED-IN		2083.8	289.0	348.9	C
H	FINAL HYDROSTATIC		3126.0			



GAUGE NO: 6040 DEPTH: 5551.0 BLANKED OFF: YES HOUR OF CLOCK: 48

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		3204.4			
B	INITIAL FIRST FLOW		242.8			
C	FINAL FIRST FLOW		394.6	16.0	14.7	F
C	INITIAL FIRST CLOSED-IN		394.6			
D	FINAL FIRST CLOSED-IN		2126.1	60.0	60.1	C
E	INITIAL SECOND FLOW		381.1			
F	FINAL SECOND FLOW		1406.1	121.0	122.1	F
F	INITIAL SECOND CLOSED-IN		1406.1			
G	FINAL SECOND CLOSED-IN		2121.4	289.0	348.9	C
H	FINAL HYDROSTATIC		3176.8			

EQUIPMENT & HOLE DATA

FORMATION TESTED: UPPER ISMAY

NET PAY (ft): 22.0

GROSS TESTED FOOTAGE: 62.0

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 8.750

ELEVATION (ft): 0

TOTAL DEPTH (ft): 5555.0

PACKER DEPTH(S) (ft): 5487, 5493

FINAL SURFACE CHOKE (in): 0.125

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 11.00

MUD VISCOSITY (sec): 50

ESTIMATED HOLE TEMP. (°F): 130

ACTUAL HOLE TEMP. (°F): 130 @ 5551.0 ft

TICKET NUMBER: 21253200

DATE: 4-12-82 TEST NO: 2

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: FARMINGTON

TESTER: G.D. GUNN
E.M. CHAVEZ

WITNESS: _____

DRILLING CONTRACTOR: ENERGY SEARCH DRILLING COMPANY

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
MUD PIT	<u>0.880 @ 75 °F</u>	<u>3757 ppm</u>
SAMPLER (OIL)	_____ @ _____ °F	_____ ppm
TOP (OIL)	_____ @ _____ °F	_____ ppm
MIDDLE (OIL)	_____ @ _____ °F	_____ ppm
BOTTOM (OIL)	<u>1.830 @ 74 °F</u>	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: 400

cu.ft. OF GAS: 5.50

cc OF OIL: 1400

cc OF WATER: 0

cc OF MUD: 0

TOTAL LIQUID cc: 1400

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 41.2 @ 60 °F

GAS/OIL RATIO (cu.ft. per bbl): 624

GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

APPROXIMATELY 10 BBLs. OF GOOD OIL
 TOP OIL WAS 41.2 API @ 60 DEGREE F.
 SAMPLER OIL WAS 46 API @ 60 DEGREE F.

MEASURED FROM TESTER VALVE

REMARKS:

SEE PRODUCTION TEST DATA SHEET

TYPE & SIZE MEASURING DEVICE:

1/8" POSITIVE CHOKE

TICKET NO: 21252200

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
2130					ON LOCATION
0230					PICKED UP TOOLS
0400					TRIPPED IN HOLE
0752					ON BOTTOM
0754	BH	2			OPENED TOOL WITH A STRONG
					BLOW TO BOTTOM OF BUCKET.
0755	BH	9			STRONG BLOW TO BOTTOM OF
					BUCKET.
0757	BH	21			STRONG BLOW TO BOTTOM OF
					BUCKET.
0758	1/8	30			CHANGED TO CHOKE AND TO
					FLARE PIT.
0800	1/8	40			
0802	1/8	60			
0804	1/8	65			
0806	1/8	80			
0808	1/8	92			
0809	1/8	100			
0810	1/8	105			CLOSED TOOL-NO GAS
					GAS TO THE SURFACE DURING
					CLOSED IN PERIOD.
0910	1/8	20			OPENED TOOL
0913	1/8	30			
0917	1/8	60			3' FLARE
0920	1/8	80			3' FLARE
0924	1/8	100			3' FLARE
0928	1/8	115			3' FLARE
0930	1/8	120			3' FLARE
0934	1/8	140			3' FLARE
0938	1/8	155			3' FLARE
0940	1/8	160			4' FLARE
0947	1/8	180			4' FLARE
0951	1/8	190			4' FLARE
0953	1/8	190			PRESSURE STABILIZED-4' FLARE.
1010	1/8	200			PRESSURE INCREASING-4' FLARE.
1028	1/8	225			PRESSURE INCREASING-4' FLARE.
1048		250			PRESSURE INCREASING-6' FLARE.

TICKET NO: 21253200

CLOCK NO: 14128 HOUR: 24



GAUGE NO: 6039

DEPTH: 5472.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	182.7			
2	2.0	196.9	14.2		
3	4.0	223.0	26.2		
4	6.0	242.3	19.2		
5	8.0	257.3	15.0		
6	10.0	285.1	27.8		
7	12.0	315.2	30.1		
8	14.0	342.7	27.5		
C 9	14.7	349.2	6.5		
FIRST CLOSED-IN					
C 1	0.0	349.2			
2	2.0	1981.2	1632.0	1.8	0.925
3	4.0	2035.7	1686.5	3.1	0.670
4	6.0	2047.8	1698.7	4.3	0.539
5	8.0	2055.9	1706.8	5.2	0.452
6	10.0	2061.2	1712.0	5.9	0.394
7	12.0	2064.3	1715.1	6.6	0.348
8	14.0	2066.6	1717.4	7.2	0.312
9	16.0	2068.8	1719.6	7.7	0.283
10	18.0	2070.1	1720.9	8.1	0.260
11	20.0	2071.5	1722.3	8.5	0.240
12	25.0	2073.5	1724.3	9.3	0.201
13	30.0	2075.4	1726.2	9.9	0.173
14	35.0	2076.1	1726.9	10.4	0.152
15	40.0	2077.6	1728.4	10.8	0.136
16	45.0	2077.8	1728.7	11.1	0.123
17	50.0	2078.6	1729.5	11.4	0.112
18	55.0	2078.6	1729.5	11.6	0.103
D 19	60.1	2078.6	1729.5	11.8	0.095
SECOND FLOW					
E 1	0.0	334.8			
2	10.0	407.2	72.4		
3	20.0	549.7	142.5		
4	30.0	677.7	128.0		
5	40.0	792.5	114.8		
6	50.0	877.8	85.3		
7	60.0	960.2	82.4		
8	70.0	1038.1	77.9		
9	80.0	1114.2	76.1		
10	90.0	1179.6	65.4		
11	100.0	1247.4	67.8		
12	110.0	1300.8	53.4		
F 13	122.1	1361.6	60.8		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN					
F 1	0.0	1361.6			
2	3.0	2007.6	645.9	2.9	1.667
3	6.0	2029.6	668.0	5.7	1.380
4	9.0	2039.5	677.8	8.4	1.211
5	12.0	2045.1	683.5	11.0	1.093
6	15.0	2049.9	688.2	13.5	1.006
7	18.0	2053.4	691.8	15.9	0.934
8	21.0	2055.3	693.6	18.2	0.876
9	24.0	2057.0	695.4	20.4	0.827
10	27.0	2059.2	697.6	22.5	0.784
11	30.0	2060.9	699.3	24.6	0.745
12	40.0	2064.1	702.4	31.0	0.646
13	50.0	2066.5	704.9	36.6	0.573
14	60.0	2068.8	707.2	41.7	0.516
15	70.0	2070.5	708.9	46.3	0.471
16	80.0	2071.6	710.0	50.5	0.433
17	90.0	2072.7	711.1	54.3	0.402
18	100.0	2073.8	712.2	57.8	0.375
19	150.0	2076.4	714.7	71.6	0.282
20	200.0	2078.1	716.5	81.3	0.226
21	250.0	2080.0	718.4	88.4	0.190
22	300.0	2081.5	719.9	94.0	0.163
G 23	348.9	2083.8	722.2	98.3	0.144

REMARKS:

TICKET NO: 21253200

CLOCK NO: 18775 HOUR: 48



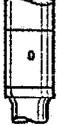
GAUGE NO: 6040

DEPTH: 5551.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	242.8			
2	2.0	249.5	6.7		
3	4.0	272.3	22.8		
4	6.0	289.4	17.1		
5	8.0	307.1	17.7		
6	10.0	333.3	26.2		
7	12.0	364.0	30.7		
8	14.0	392.0	28.0		
C 9	14.7	394.6	2.6		
FIRST CLOSED-IN					
C 1	0.0	394.6			
2	2.0	2011.4	1616.8	1.8	0.921
3	4.0	2085.0	1690.4	3.2	0.669
4	6.0	2095.8	1701.2	4.2	0.540
5	8.0	2102.8	1708.3	5.2	0.454
6	10.0	2108.1	1713.5	5.9	0.394
7	12.0	2112.2	1717.6	6.6	0.347
8	14.0	2114.9	1720.3	7.2	0.311
9	16.0	2116.2	1721.7	7.7	0.283
10	18.0	2117.6	1723.0	8.1	0.260
11	20.0	2119.3	1724.8	8.5	0.239
12	25.0	2121.6	1727.1	9.3	0.201
13	30.0	2123.2	1728.7	9.9	0.173
14	35.0	2124.7	1730.2	10.4	0.152
15	40.0	2125.1	1730.6	10.8	0.136
16	45.0	2125.7	1731.1	11.1	0.123
17	50.0	2126.2	1731.7	11.4	0.112
18	55.0	2126.5	1731.9	11.6	0.103
D 19	60.1	2126.1	1731.5	11.8	0.095
SECOND FLOW					
E 1	0.0	381.1			
2	10.0	449.7	68.6		
3	20.0	596.8	147.1		
4	30.0	725.5	128.7		
5	40.0	839.9	114.5		
6	50.0	926.5	86.6		
7	60.0	1008.2	81.7		
8	70.0	1079.5	71.2		
9	80.0	1160.1	80.7		
10	90.0	1225.0	64.9		
11	100.0	1292.4	67.4		
12	110.0	1346.8	54.3		
F 13	122.1	1406.1	59.3		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN					
F 1	0.0	1406.1			
2	3.0	2046.1	640.0	3.0	1.664
3	6.0	2071.6	665.5	5.8	1.376
4	9.0	2082.8	676.8	8.5	1.208
5	12.0	2089.7	683.6	11.0	1.093
6	15.0	2093.1	687.0	13.5	1.006
7	18.0	2095.9	689.9	15.9	0.936
8	21.0	2098.6	692.6	18.2	0.876
9	24.0	2101.2	695.1	20.4	0.827
10	27.0	2103.2	697.2	22.5	0.783
11	30.0	2104.7	698.6	24.6	0.745
12	40.0	2107.0	700.9	30.9	0.646
13	50.0	2109.5	703.4	36.6	0.573
14	60.0	2110.8	704.7	41.7	0.516
15	70.0	2111.8	705.7	46.3	0.471
16	80.0	2112.7	706.6	50.5	0.433
17	90.0	2113.4	707.3	54.3	0.401
18	100.0	2115.4	709.3	57.8	0.374
19	150.0	2117.2	711.1	71.6	0.282
20	200.0	2119.2	713.1	81.3	0.226
21	250.0	2120.5	714.5	88.4	0.190
22	300.0	2121.1	715.0	94.0	0.163
G 23	348.9	2121.4	715.3	98.3	0.144

REMARKS:

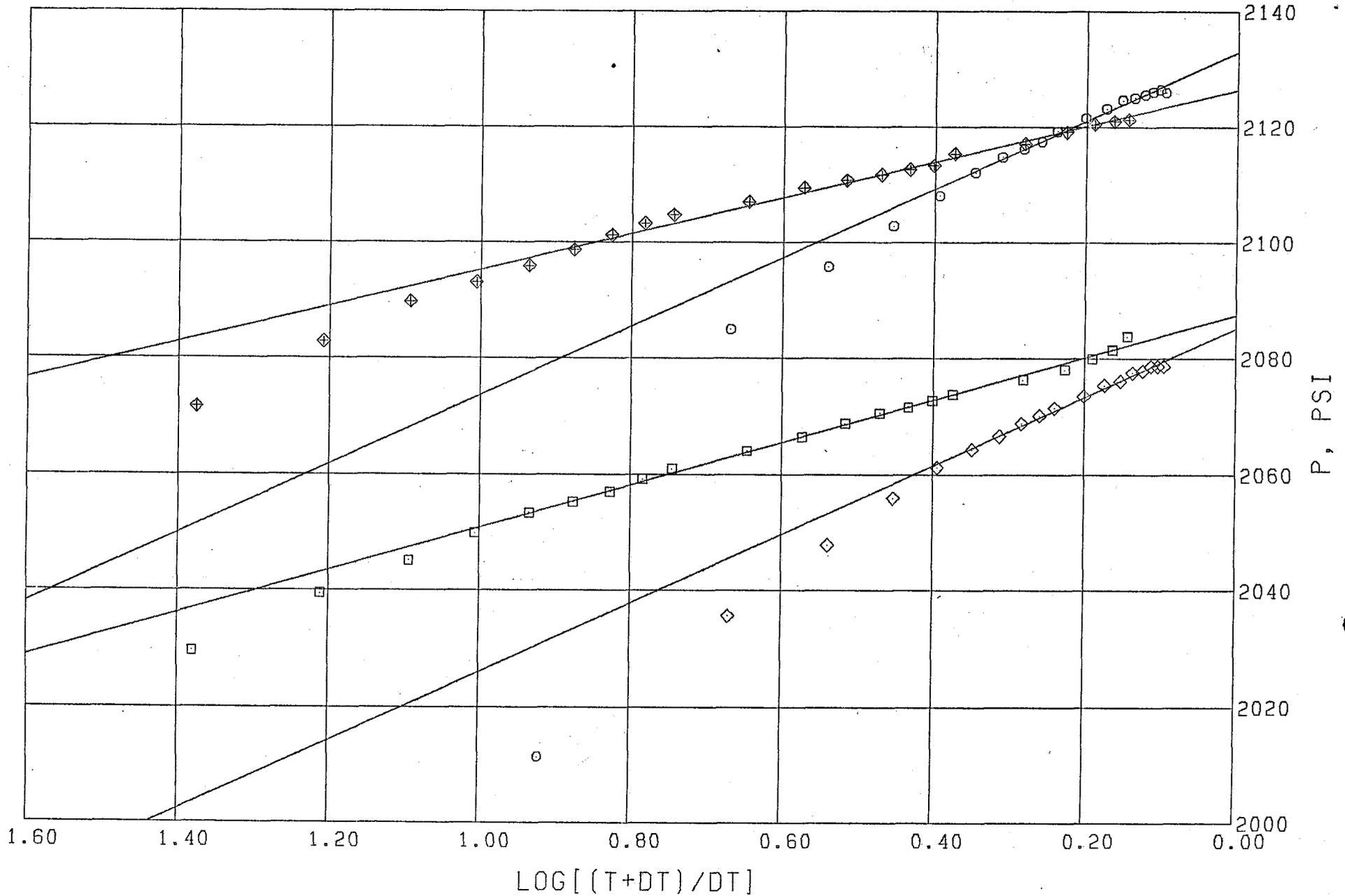
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	5078.0	
3		DRILL COLLARS.....	6.250	2.250	316.0	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	5397.0
1		DRILL PIPE.....	6.250	2.250	60.0	
5		CROSSOVER.....	6.000	3.000	1.0	
13		DUAL CIP SAMPLER.....	5.030	0.870	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5470.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	5472.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	5487.0
70		OPEN HOLE PACKER.....	7.750		6.0	5493.0
20		FLUSH JOINT ANCHOR.....	5.750	3.000	56.0	
81		BLANKED-OFF RUNNING CASE.....	5.750	2.440	4.0	5551.0
TOTAL DEPTH						5555.0

EQUIPMENT DATA

TICKET NO 21253200

GAUGE NO CIP 1 2
6039 ◇ □

GAUGE NO CIP 1 2
6040 ○ ◇



SUMMARY OF RESERVOIR PARAMETERS USING HORNER METHOD

OIL GRAVITY	41.2	@60°	WATER % SALT	0.0
GAS GRAVITY	0.700		FLUID GRADIENT	0.3550 psi/ft
GAS/OIL RATIO	623.5	cu.ft/bbl	FORMATION VOL FACTOR	1.338 vol/vol
TEMPERATURE	130.0	°F	FLUID PROPERTIES AT	2126.5 Psig
VISCOSITY	0.667	cp	NET PAY	22.0 ft
PIPE CAPACITY FACTOR(S)				0.01422 bbl/ft

GAUGE NUMBER	6039	6039	6040	6040			
GAUGE DEPTH	5472.0	5472.0	5551.0	5551.0			
FLOW AND CIP PERIOD	1	2	1	2			UNITS
FINAL FLOW PRESSURE P_f	349.2	1361.6	394.6	1406.1			Psig
TOTAL FLOW TIME t	14.7	136.9	14.7	136.9			min
EXTRAPOLATED PRESSURE P^*	2085.2	2087.5	2133.0	2126.5			Psig
ONE CYCLE PRESSURE	2025.9	2050.8	2073.6	2095.3			Psig
PRODUCTION RATE <i>30 per min x 24 hrs</i> Q	690.0	679.1	660.3	686.7			BPD
TRANSMISSIBILITY kh/μ	2532.77	4029.49	2419.43	4785.87			$\frac{md-ft}{cp}$
FLOW CAPACITY kh	1690.45	2689.41	1614.81	3194.25			md-ft
PERMEABILITY <i>Based on net pay (should be 50%)</i>	76.8387	122.246	73.4004	145.193			md
DAMAGE RATIO <i>DR x $\phi = \phi_i$</i> DR	5.36	3.62	5.36	4.22			
POTENTIAL RATE Q_1	3699.6	2461.0	3539.0	2900.9			BPD
RADIUS OF INVESTIGATION r_1	155.7	598.9	152.2	652.7			ft

REMARKS:

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CONFIDENTIAL



TICKET NO. 21248400
20-APR-82
FARMINGTON, N.M.

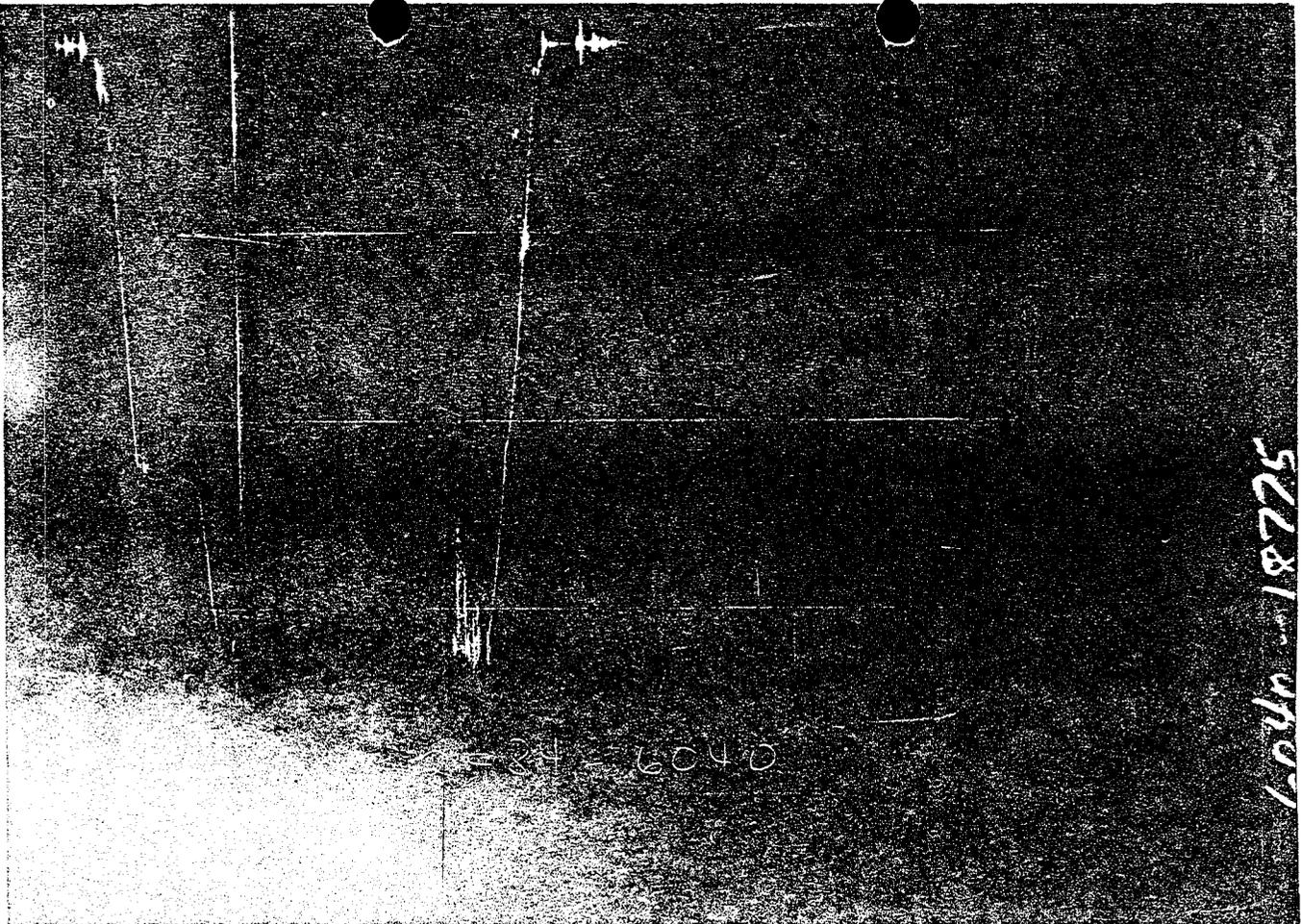
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DIVISION OF
OIL, GAS & MINING

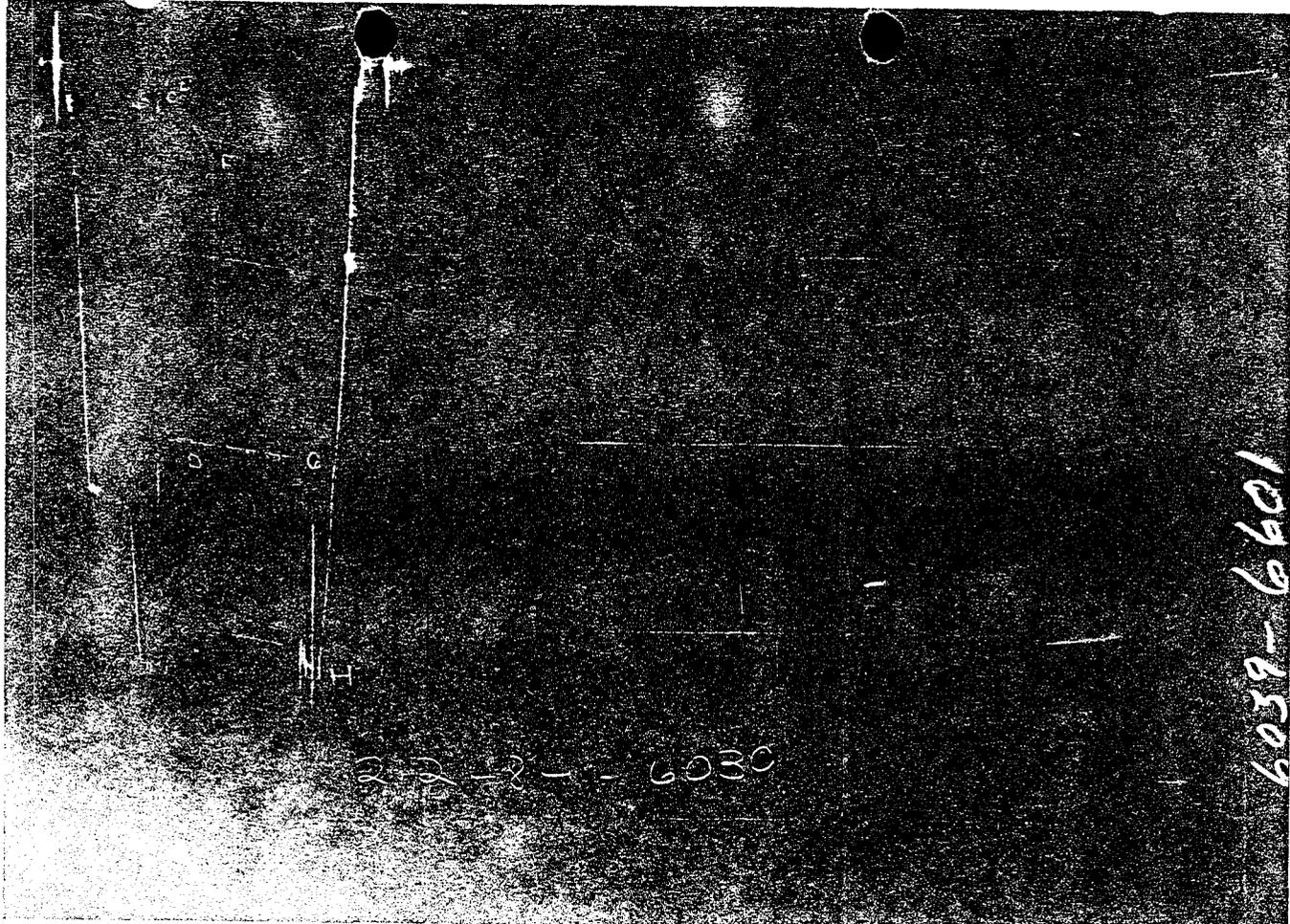
FORMATION TESTING SERVICE REPORT

TIN CUP MESA	3-26	1	5450.1 - 5495.1	MARATHON OIL COMPANY
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RANG.	26-38S-25E	FIELD AREA	WILDCAT	COUNTY
				SRN JURN
				STATE
				UTAH



GAUGE NO: 6040 DEPTH: 5435.0 BLANKED OFF: NO HOUR OF CLOCK: 48

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		3161.7			
B	INITIAL FIRST FLOW		124.2			
C	FINAL FIRST FLOW		173.1	16.0	15.8	F
C	INITIAL FIRST CLOSED-IN		173.1			
D	FINAL FIRST CLOSED-IN		2076.4	60.0	63.8	C
E	INITIAL SECOND FLOW		157.1			
F	FINAL SECOND FLOW		496.7	120.0	115.8	F
F	INITIAL SECOND CLOSED-IN		496.7			
G	FINAL SECOND CLOSED-IN		2081.8	305.0	305.6	C
H	FINAL HYDROSTATIC		3178.8			



GAUGE NO: 6039 DEPTH: 5492.0 BLANKED OFF: YES HOUR OF CLOCK: 72

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		3190.3			
B	INITIAL FIRST FLOW		157.7			
C	FINAL FIRST FLOW		201.2	16	16	F
C	INITIAL FIRST CLOSED-IN		201.2			
D	FINAL FIRST CLOSED-IN		2085.3	60	64	C
E	INITIAL SECOND FLOW		168.7			
F	FINAL SECOND FLOW		496.9	120	116	F
F	INITIAL SECOND CLOSED-IN		496.9			
G	FINAL SECOND CLOSED-IN		2087.8	305	306	C
H	FINAL HYDROSTATIC		3206.1			

EQUIPMENT & HOLE DATA

FORMATION TESTED: UPPER ISMAY
 NET PAY (ft): 20.0
 GROSS TESTED FOOTAGE: 45.0
 ALL DEPTHS MEASURED FROM: K.B. 5114'
 CASING PERFS. (ft): NONE
 HOLE OR CASING SIZE (in): 8.750
 ELEVATION (ft): 5101
 TOTAL DEPTH (ft): 5495.0
 PACKER DEPTH(S) (ft): 5445. 5450
 FINAL SURFACE CHOKE (in): 0.375
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 10.70
 MUD VISCOSITY (sec): _____
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 127 @ 5492.0 ft

TICKET NUMBER: 21248400
 DATE: 4-10-82 TEST NO: 1
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP: _____
FARMINGTON, N.M.
 TESTER: MIKE PURVIS
 WITNESS: RAY ROSENTHALL
 DRILLING CONTRACTOR: _____
ENERGY SEARCH DRILLING COMPANY

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>MUD PIT</u>	<u>1.380 @ 60°F</u>	<u>4800 ppm</u>
<u>TOP RECOVERY</u>	<u>2.300 @ 72°F</u>	<u>2500 ppm</u>
<u>MIDDLE RECOVERY</u>	<u>1.200 @ 64°F</u>	<u>5400 ppm</u>
<u>ABOVE SAMPLER</u>	<u>0.690 @ 65°F</u>	<u>9500 ppm</u>
<u>SAMPLER</u>	<u>@ °F</u>	<u>ppm</u>
	<u>@ °F</u>	<u>ppm</u>

SAMPLER DATA

Pstg AT SURFACE: 1400
 cu.ft. OF GAS: 10.26
 cc OF OIL: 600
 cc OF WATER: 0
 cc OF MUD: 0
 TOTAL LIQUID cc: 600

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 45.0 @ 60°F
 GAS/OIL RATIO (cu.ft. per bbl): 2715
 GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
<u>NONE</u>	_____	_____

RECOVERED:

40 BBLs. OIL-REVERSED TO THE SURFACE.
 APPROXIMATELY 10' OF CUTTINGS (FINE) LOCATED
 IMMEDIATELY ABOVE THE SAMPLER.

MEASURED FROM
TESTER VALVE

REMARKS:

TOP AND MIDDLE RECOVERIES WERE REVERSED OUT
 CHLORIDES (PPM) FROM SAMPLER WERE (OIL)
 VISCOSITY ON THIS TEST WAS 42-45.
 C.C.'S OF OIL ON SAMPLER DATA WERE MUD CUT.

TYPE & SIZE MEASURING DEVICE: .375" X 6" POSITIVE CHOKE & PRESSURE GAUGE | TICKET NO: 21248400

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
4-9-82					
2220					ON LOCATION.
2330					MADE UP THE TOOLS.
4-10-82					
0030					TOOL IN THE HOLE.
0610					TAGGED BOTTOM.
0613	.125	0			TOOL OPENED-VERY WEAK BLOW THROUGH BUBBLE HOSE.
0618	.125	1			INCREASING STRONGLY-BUBBLE HOSE
0623	.125	9			STRONG BLOW-BUBLE HOSE.
0627					GAS TO THE SURFACE.
0629	.125	17			TOOL CLOSED THEN FLARED GAS TO THE PIT.
0729	.375	8			TOOL OPENED-POSITIVE CHOKE- 3/8" X 6" - GOOD.
0734	.375	23			FLARED AT THE PIT IMMEDIATELY ON OPENING.
0739	.375	34			
0744	.375	36			
0754	.375	38			PEAK PRESSURE.
0806	.375	35			
0819	.375	34			
0827					TOOK GAS SAMPLE.
0829	.375	33			
0844	.375	32			
0859	.375	30			
0914	.375	25			
0923					TOOK GAS SAMPLE.
0929	.375	24			CLOSED TOOL.
1349					DROPPED BAR TO REVERSE
1351					REVERSED OUT DRILL PIPE
1357					OIL TO THE SURFACE (REVERSING)
1412					MUD TO THE SURFACE-RECOVERED APPROXIMATELY 40 BARRELS OF GAS
					CUT OIL IN THE TANK
1420					SHUT DOWN PUMPS
1434					STARTED OFF BOTTOM.

TICKET NO: 21248400

CLOCK NO: 18775 HOUR: 48



GAUGE NO: 6040

DEPTH: 5435.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	124.2		
	2	3.0	186.8	62.6	
	3	6.0	146.7	-40.1	
	4	9.0	163.3	16.6	
	5	12.0	169.6	6.2	
C	6	15.8	173.1	3.5	
FIRST CLOSED-IN					
C	1	0.0	173.1		
	2	4.0	994.0	820.9	3.2 0.692
	3	8.0	1626.9	1453.8	5.3 0.474
	4	12.0	1935.8	1782.7	6.8 0.365
	5	16.0	2008.1	1835.0	7.9 0.297
	6	20.0	2029.5	1856.4	8.8 0.252
	7	24.0	2044.1	1871.0	9.5 0.219
	8	28.0	2051.9	1878.8	10.1 0.194
	9	32.0	2058.6	1885.6	10.6 0.174
	10	36.0	2062.6	1889.5	11.0 0.157
	11	40.0	2065.9	1892.8	11.3 0.144
	12	44.0	2068.6	1895.6	11.6 0.133
	13	48.0	2071.4	1898.3	11.9 0.123
	14	52.0	2073.0	1899.9	12.1 0.115
	15	56.0	2074.6	1901.5	12.3 0.108
	16	60.0	2075.7	1902.6	12.5 0.101
D	17	63.8	2076.4	1903.3	12.6 0.096
SECOND FLOW					
E	1	0.0	157.1		
	2	15.0	253.1	96.1	
	3	30.0	289.0	35.9	
	4	45.0	323.6	34.6	
	5	60.0	368.2	44.6	
	6	75.0	400.8	32.6	
	7	90.0	444.3	43.5	
	8	105.0	471.2	26.9	
F	9	115.8	496.7	25.5	
SECOND CLOSED-IN					
F	1	0.0	496.7		
	2	20.0	1946.5	1449.7	17.3 0.880
	3	40.0	2013.6	1516.9	30.7 0.632
	4	60.0	2037.4	1540.7	41.2 0.504
	5	80.0	2048.7	1553.0	49.8 0.422
	6	100.0	2058.4	1561.5	56.8 0.365
	7	120.0	2063.2	1565.5	62.8 0.321
	8	140.0	2067.6	1570.8	67.8 0.288

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
	9	160.0	2069.9	1573.1	72.2 0.261
	10	180.0	2073.2	1576.5	76.0 0.238
	11	200.0	2074.6	1577.9	79.4 0.219
	12	220.0	2076.9	1580.0	82.3 0.204
	13	240.0	2078.6	1581.9	85.0 0.190
	14	260.0	2079.9	1583.1	87.4 0.178
	15	280.0	2081.1	1584.3	89.5 0.167
	16	300.0	2081.1	1584.3	91.5 0.158
G	17	305.6	2081.8	1585.0	92.0 0.155

REMARKS:

TICKET NO: 21248400

CLOCK NO: 6601 HOUR: 72



GAUGE NO: 6039

DEPTH: 5492.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$		
FIRST FLOW						SECOND CLOSED-IN - CONTINUED							
B	1	0	157.7			8	140	2074.3	1577.4	67.8	0.288		
	2	3	246.7	89.0		9	160	2077.4	1580.5	72.2	0.261		
	3	6	220.6	-26.2		10	180	2079.5	1582.6	76.0	0.238		
	4	9	198.4	-22.2		11	200	2081.5	1584.6	79.4	0.220		
	5	12	201.1	2.7		12	220	2083.1	1586.2	82.3	0.204		
C	6	16	201.2	0.1		13	240	2084.6	1587.7	85.0	0.190		
FIRST CLOSED-IN						14	260	2086.1	1589.2	87.4	0.178		
C	1	0	201.2			15	280	2087.6	1590.7	89.5	0.167		
	2	4	740.7	539.5	3.2	0.691	16	300	2087.6	1590.7	91.5	0.158	
	3	8	1431.1	1229.9	5.3	0.474	G	17	306	2087.8	1591.0	92.0	0.155
	4	12	1886.8	1685.5	6.8	0.364							
	5	16	2004.5	1803.2	7.9	0.297							
	6	20	2033.1	1831.9	8.8	0.253							
	7	24	2048.8	1847.6	9.5	0.219							
	8	28	2059.3	1858.1	10.1	0.194							
	9	32	2066.2	1865.0	10.6	0.174							
	10	36	2071.8	1870.5	11.0	0.158							
	11	40	2075.0	1873.8	11.3	0.144							
	12	44	2078.0	1876.8	11.6	0.133							
	13	48	2080.0	1878.8	11.9	0.123							
	14	52	2082.3	1881.1	12.1	0.115							
	15	54	2083.4	1882.2	12.2	0.111							
	16	56	2084.2	1883.0	12.3	0.108							
	17	60	2085.4	1884.2	12.5	0.101							
D	18	64	2085.3	1884.1	12.6	0.096							
SECOND FLOW													
E	1	0	168.7										
	2	15	262.7	94.0									
	3	30	292.5	29.8									
	4	45	324.7	32.1									
	5	60	370.1	45.4									
	6	75	403.0	32.9									
	7	90	446.9	43.9									
	8	105	472.8	25.9									
F	9	116	496.9	24.1									
SECOND CLOSED-IN													
F	1	0	496.9										
	2	20	1949.1	1452.2	17.4	0.679							
	3	40	2017.7	1520.8	30.7	0.632							
	4	60	2042.3	1545.4	41.2	0.504							
	5	80	2055.9	1559.1	49.8	0.422							
	6	100	2064.7	1567.8	56.8	0.365							
	7	120	2070.7	1573.8	62.8	0.321							

REMARKS:

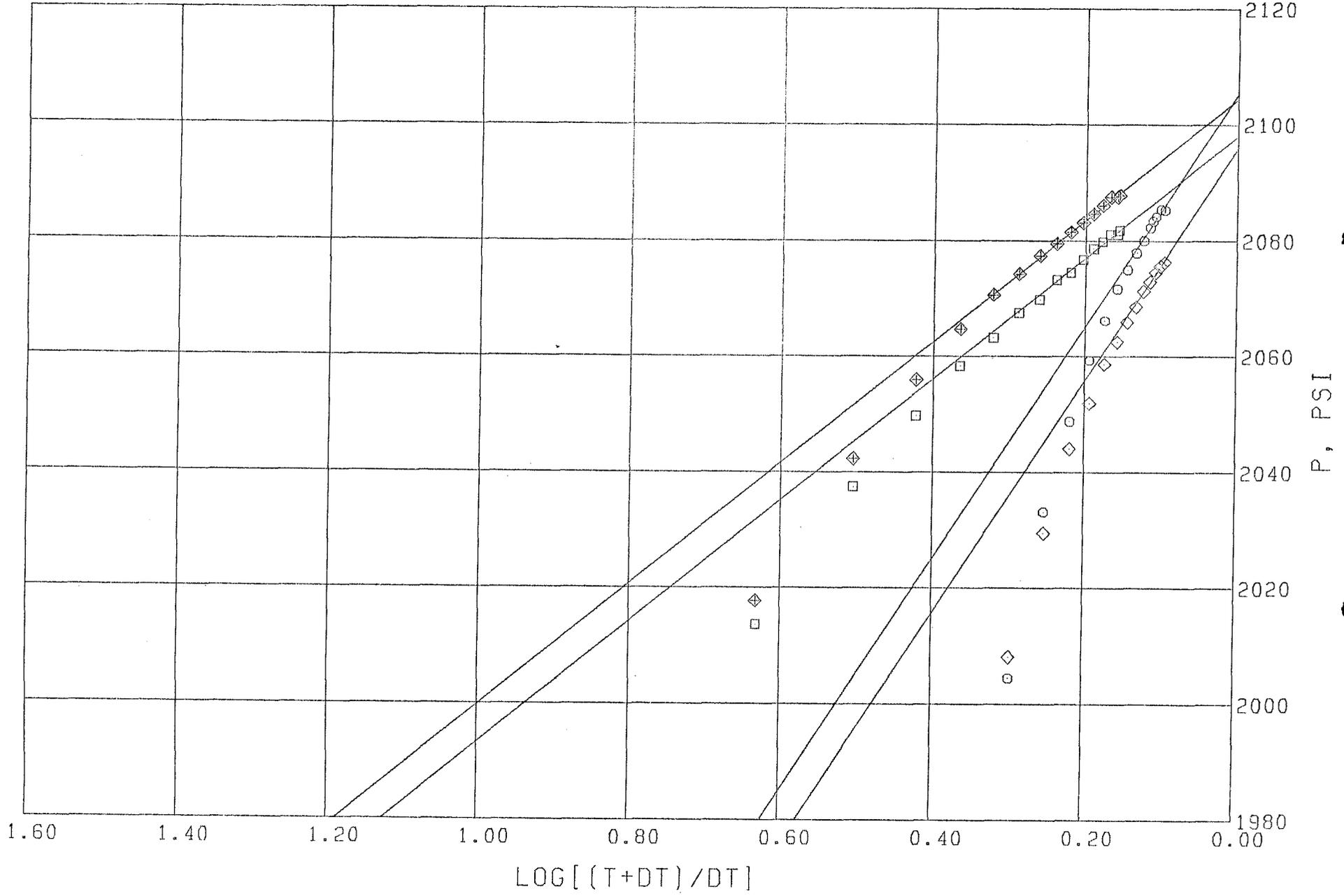
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	5066.0	
3		DRILL COLLARS.....	6.250	2.250	311.0	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	5354.0
3		DRILL COLLARS.....	6.250	2.250	62.0	
5		CROSSOVER.....	6.000	3.000	1.0	
13		DUAL CIP SAMPLER.....	5.030	0.870	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5429.0
15		JAR.....	5.030	1.750	5.0	
80		AP RUNNING CASE.....	5.000	2.250	4.0	5435.0
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	5445.0
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	5450.0
20		FLUSH JOINT ANCHOR.....	5.750	3.000	39.0	
81		BLANKED-OFF RUNNING CASE.....	5.750	2.440	4.0	5492.0
TOTAL DEPTH						5495.0

EQUIPMENT DATA

TICKET NO 21248400

GAUGE NO CIP 1 2
6040 ◇ □

GAUGE NO CIP 1 2
6039 ○ ◇



SUMMARY OF RESERVOIR PARAMETERS USING HORNER METHOD

OIL GRAVITY 45.0 @60° WATER % SALT 0.0
 GAS GRAVITY 0.700 FLUID GRADIENT 0.3474 psi/ft
 GAS/OIL RATIO 2714.6 cu.ft/bbl FORMATION VOL FACTOR 2.331 vol/vol
 TEMPERATURE 127.0 °F FLUID PROPERTIES AT 2104.5 Pstg
 VISCOSITY 0.280 cp NET PAY 20.0 ft
 PIPE CAPACITY FACTOR(S) 0.00492 0.01422 bbl/ft

GAUGE NUMBER		6040	6040	6039	6039			
GAUGE DEPTH		5435.0	5435.0	5492.0	5492.0			
FLOW AND CIP PERIOD		1	2	1	2			UNITS
FINAL FLOW PRESSURE	P_f	173.1	496.7	201.2	496.9			Pstg
TOTAL FLOW TIME	t	15.8	131.6	15.8	131.6			min
EXTRAPOLATED PRESSURE	P^*	2096.0	2098.1	2105.3	2104.5			Pstg
ONE CYCLE PRESSURE		1895.0	1993.2	1904.4	1999.7			Pstg
PRODUCTION RATE	Q		142.5		137.0			BPD
TRANSMISSIBILITY	kh/μ		514.861		495.570			md-ft cp
FLOW CAPACITY	kh		144.112		138.713			md-ft
PERMEABILITY	k		7.20562		6.93565			md
DAMAGE RATIO	DR		2.79		2.81			
POTENTIAL RATE	Q_1		398.1		384.7			BPD
RADIUS OF INVESTIGATION	r_1		142.6		139.9			ft

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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 Drilling

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 500' FNL & 2,125' FEL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
3-26

10. FIELD OR WILDCAT NAME
Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26, T38S, R25E

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

14. API NO.
43-037-30762

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,101' GL, 5,114' KB

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

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON*

(other) Progress Report

RECEIVED
MAY 12 1982
DIVISION OF
OIL, GAS & MINING

(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.)*

From: 4-19-82 to: 4-21-82

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

18. I hereby certify that the foregoing is true and correct.
SIGNED W.E. Krueger TITLE Drilling Superintendent DATE 5-7-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #3-26

- 4-19-82 5,780' MADE 0' IN AKAH FORMATION. MW 11, VIS 45. DRLG STAGE CLR FIN N/U. MR. RAFFOWL W/STATE OF UTAH CONTACTED BY WALT WEST @ 9:05 AM, 4-18-82.
1ST STAGE: CMTD CSG W/450 SX CLASS "H" W/.5% D-60 & 18% SALT. USED 0% EXCESS VOLUME, PMPD 0 GAL MUD FLUSH. THEN 10 BBLS WTR AHEAD. 3 BBLS BEHIND. SLURRY WT 15.9#/GAL. BUMPED PLUG TO 2,000 PSI. GOOD RETURNS WHILE CMTG. 2ND STAGE: CMTD CSG W/770 SX OF CLASS LITE POZ 300 W/NO ADDITIVES. THEN 10 BBLS WTR AHEAD. 10 BBLS BEHIND. SLURRY WT 12.7#/GAL. BUMPED PLUG TO 2,500 PSI. GOOD RETURNS WHILE CMTG. FLOAT EQUIP HELD OK. SET 120,000# CSG WT ON SLIPS. KB TO WELL HEAD 14.00'.
- 4-20-82 5,780' MADE 0' IN AKAH FORMATION. FIN DRLG DV CLR. RIH, TAG FLOAT CLR @ 5,695'. DISPL MUD W/WTR. POH. PU CSG SCRAPER. RIH, MIX & DISPL HOLE W/2% KCL WTR. RIG SCLUMBERGER & RUN BOND LOG.
- 4-21-82 5,780' MADE 0' IN AKAH FORMATION. W/O O. RUN SCLUMBERGER TDT LOG 5,600'-4,600' 5 PASSES W/LOG. RIH W/BAKER LOK-SET PKR & 2-7/8" TBG, SET PKR @ 5,436' KB W/20,000# TENSION. RELEASED RIG @ 3:00 AM, 4-21-82.

Confidential

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
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

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AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
3-26

10. FIELD OR WILDCAT NAME
Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 26, T38S, R25E

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

14. API NO.
43-037-30762

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,101' GL, 5,114' KB

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

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

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

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

ATTACHMENTS:

- 1. Proposal
- 2. Schematic

RECEIVED

MAY 17 1982

DIVISION OF
OIL, GAS & MINING

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

18. I hereby certify that the foregoing is true and correct District _____
SIGNED Dale Caddy TITLE Operations Manager DATE May 13, 1982

(This space for Federal or State office use)

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

TIN CUP MESA #3-26 BATTERY

The battery for Tin Cup Mesa #3-26 will be installed at the location of the #1-25 well. Three individual lines will be laid between the well locations (numbers 3-26 and 1-25); however, they will all be placed in the same ditch. The lines will consist of a 4" steel line used for future production, a 3" steel line for present production and future testing, and a 2" fiberglass line for transmitting fresh water to the producing wellheads from the #1-25 battery. The 4" production line will have the capacity to handle production from future wells. These lines will enter the #1-25 location from the west and will be connected directly to the horizontal treater, which lies 150' west of the #1-25 wellhead. A 2" drain line will dump directly into the pit. However, if water production becomes greater than 5 BWPD, a 4" line will connect to a water storage tank that would be installed at the northwest corner of the location. The gas will temporarily be vented. Future utilization of gas is currently under investigation. The 4" oil line from the treater will connect to the stock tanks located 125' due south of the #1-25 wellhead. The oil will be capable of flowing into any of the eight 400-bbl storage tanks. All tanks can be gauged and oil from any tank can be transported to the trucking connection. Equalizing lines and vent lines will connect all tanks. The drains from these tanks will be routed to the pit and the production treater for recycling. A circulating pump will connect the stock tanks to the treater. Oil will be trucked from the battery until a pipeline connection is feasible.

Please see attached schematic for pertinent details.

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
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 500' FNL & 2,125' FEL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
3-26

10. FIELD OR WILDCAT NAME
Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 26, T38S, R25E

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

14. API NO.
43-037-30762

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,101' GL, 5,114' KB

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

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) Well Test

SUBSEQUENT REPORT OF:

(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.)*

We propose a two-well pressure transient interference test between wells 3-26 and 1-25 of the Tin Cup Mesa Unit, San Juan County, Utah. The test is intended to confirm reservoir continuity between the two wells and reservoir capacity. Well 3-26 will be the "active well," produced for 30-40 days at a steady rate of approximately 500 BOPD. Well 1-25 will serve as the observation well to monitor the pressure response. Downhole pressures will be monitored throughout the flow period in both wells. Well 3-26 will then be shut-in for a period of time approximately equal to the flow period. Bottomhole pressures will continue to be monitored in both wells during the shut-in period. In total, the test time will include 60-80 days.

On 6-25-82, Mr. Cleon B. Feight, Director of Utah Division of O.G. & M., was contacted by Walt West, MOC, and verbal permission was given to conduct this test.

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

18. I hereby certify that the foregoing is true and correct District _____
SIGNED Dale T. Caddy TITLE Operations Manager DATE June 25, 1982

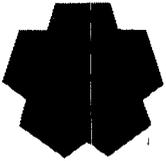
(This space for Federal or State office use)

RECEIVED
APPROVED BY
CONDITIONS OF APPROVAL, IF ANY
JUN 28 1982

DIVISION OF
OIL, GAS & MINING

*See Instructions on Reverse Side

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



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

5101082

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

December 11, 1982

Marathon Oil Company
P. O. Box 2659
Casper, Wyoming 82602

Re: Well No. Tin Cup Mesa #3-26
Sec. 26, T. 38S, R. 25E.
San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office May 5, 1982, from above referred to well, indicates the following electric logs were run: Coriband, BHC, DLL-MSFL, CNL, FDC. As of todays date, this office has not received these logs.

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

Cari Furse

Cari Furse
Clerk Typist

Logs enclosed
Complied with
1-6-83

CF/cf

RECEIVED
DEC 20 1982
CASPER DISTRICT
OPERATIONS

**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
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 500' FNL & 2,125' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE
U-31928 ✓

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit ✓

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
3-26

10. FIELD OR WILDCAT NAME
Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26, T38S, R25E

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

14. API NO.
43-037-30762

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,101' GL, 5,114' KB

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

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

Under NTL4A we propose to flow test this well for two weeks to establish a flow rate and to take samples of the gas evolved in the oil production. It is necessary to verify gas hydrocarbon composition analyses and establish validity of current data since a large discrepancy is apparent in order to properly size facilities based on accurate compositional data.

The above proposal was discussed by phone between Mr. Bill Martens, BLM, Branch of Liquid Minerals, and Walt West, Marathon Oil Company, on August 4, 1983.

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

18. I hereby certify that the foregoing is true and correct District _____
SIGNED Doyle L. Jones TITLE Operations Manager DATE August 5, 1983
by J. E. O'Neal
(This space for Federal or State office use)

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

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
DATE: 8/5/83
BY: [Signature]

*See Instructions on Reverse Side

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
Marathon Oil Company

3. ADDRESS OF OPERATOR
PO Box 2659, Casper WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: --
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-31928 ✓

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
--

7. UNIT AGREEMENT NAME
Tin Cup Mesa

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
--

10. FIELD OR WILDCAT NAME
Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 23, 25, 26, T38S, R25E

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

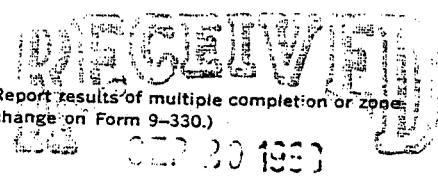
14. API NO.
--

15. ELEVATIONS (SHOW DF, KDB, AND WD)
--

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

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

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



DIVISION OF OIL, GAS, AND 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.)*

Sirs: We request approval to flare gas from our Tin Cup Mesa Field for a period of 30 days. Approval of this request will give us ample time to finish our pipeline and hookup. All cautionary measures will be taken and safety practices adhered to during this time of flaring.

The above request was discussed and verbal permission was given to Walt West, Marathon Oil Company, by Mr. Brian Wood, BLM, Monticello UT; Mr. Ron Firth, Utah State, Oil, Gas and Mining, Salt Lake City UT; and Mr. Bill Martiens, BLM, Salt Lake City UT, on September 27, 1983.

The starting date of this proposal would be November 1, 1983.

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

18. I hereby certify that the foregoing is true and correct District _____
SIGNED Douglas Jones TITLE Operations Manager DATE September 27, 1983

(This space for Federal or State office use)

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

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

*See Instructions on Reverse Side

Scott M. Matheson
Governor



STATE OF UTAH
DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
Utah Water Pollution Control Committee

150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110-2500

November 15, 1983
533-6146

Calvin K. Sudweeks
Executive Secretary
Rm 410 (801) 533-6146

James O. Mason, M.D., Dr.P.H.
Executive Director
Department of Health
801-533-6111

Mr. Walt West
Regulatory Coordinator
Marathon Oil Co.
Casper, Wyoming 82602

Kenneth L. Alkema
Director
Division of Environmental Health
801-533-6121

MEMBERS

Grant K. Borg, Chairman
W. Lynn Cottrell
Harold B. Lamb
Kenneth L. Alkema
Franklin N. Davis
Dale P. Bateman
Joseph A. Urbanik
C. Arthur Zeldin
Mrs. Lloyd G. Bliss

RE: Construction Permit for
 Disposal Pond
Section 23+26 T38S R25E

Jim Quinn
Ten Sup Wilson 2-23
3-23
3-26
4-26

Dear Mr. West:

A review of your file and inspection of your property indicate that you have complied with the minimum requirements to obtain an approval for a properly designed disposal pond located in Sections 23+26 T38S R25E for disposal of produced waters from oil and gas wells. We commend you for your cooperative attitude in following the State requirements and for your desire to protect the surface and subsurface waters of the State.

The system consists of 1 large evaporation pond (420' x 270') and the total liquid volume of the system is approximately 307,584 ft³.

Before receiving final approval, our bureau also requests a submittal to this office of the frequency of monitoring data and the specific parameters which will be measured. This data should be submitted on a timely basis (recommended within 60 days of the sampling date.)

The pond has been designed according to State standards and as a result, a construction permit is hereby issued as constituted by this letter. A final inspection must be conducted after construction but prior to putting the facility into operation.

If you have any questions, please call Jerry Riding or Fred Pehrson at the above number.

Sincerely,

UTAH WATER POLLUTION CONTROL COMMITTEE

Calvin K. Sudweeks
Calvin K. Sudweeks
Executive Secretary

RECEIVED
NOV 20 1983

DIVISION OF
OIL, GAS & MINING

JRR:na
cc: Division of Oil, Gas and Mining
Utah District Health Dept.
BLM/Oil and Gas Operation
Division of Water Rights

0100

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0105
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-31928 ✓
2. NAME OF OPERATOR Marathon Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, WY 82602		7. UNIT AGREEMENT NAME Tin Cup Mesa ✓
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Wells: #3-26, #4-26, #2-23, #3-23		8. FARM OR LEASE NAME Tin Cup Mesa Unit
14. PERMIT NO. N/A	15. ELEVATIONS (Show whether DF, RT, GR, etc.) N/A	9. WELL NO. All Unit Wells
		10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa Field
		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec. 23, Sec. 26, T38S, R25E
		12. COUNTY OR PARISH 13. STATE San Juan 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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Request to Commingle Production <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(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.)*

We request approval to commingle the oil, gas, and water production from the four producing wells in the Tin Cup Mesa Unit. These wells are #2-23, #3-23, #3-26, and #4-26. The participating area for Well #3-26 was approved April 27, 1982. Applications for revision to the participating area were submitted as follows: Well #2-23 was submitted March 21, 1983, Well #3-23 was submitted October 17, 1983, and Well #4-26 was submitted November 23, 1983.

Commingled production will be allocated to the individual well on the basis of monthly well tests and gas analyses.

DIVISION OF
OIL, GAS & MINING

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

SIGNED Doyle J. Jara TITLE District Operations Manager DATE January 6, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Gas Surface Facility		5. LEASE DESIGNATION AND SERIAL NO. U-31928
2. NAME OF OPERATOR Marathon Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, WY 82602		7. UNIT AGREEMENT NAME Tin Cup Mesa
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface --		8. FARM OR LEASE NAME Tin Cup Mesa
14. PERMIT NO. --	15. ELEVATIONS (Show whether DF, RT, GR, etc.) --	9. WELL NO. -- 1-25
		10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25, T38S, R25E
		12. COUNTY OR PARISH 13. STATE San Juan 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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Please See Below		(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.)*

SURFACE FACILITIES, TIN CUP MESA UNIT

Reporting of unavoidable loss of oil, gas, or gas products due to equipment malfunctions, fires, line breaks, etc., shall be reported in accordance with NTL-4.

Emergencies requiring the venting or flaring of gas will be followed by specific requirements contained in Items 1 A. and 1 B. (1), (2), and (3) of the NTL-4.

Good engineering practices will be maintained at all times during the operation of Tin Cup Mesa surface facilities.

RECEIVED
JAN 18 1984

**DIVISION OF
OIL, GAS & MINING**
District

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

SIGNED Doyle Jones TITLE Operations Manager DATE Jan. 16, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions on Reverse Side

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 3

MARATHON OIL COMPANY
 VARIOUS WELLS

DATE : 11-NOV-84
 FORMATION :

FILE NO : 3804-6918
 ANALYSTS : S.S.

VERTICAL PERM ANALYSIS-VARIOUS WELLS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM VERTICAL	DESCRIPTION
69	5467.0-48.0	2.55	
	#3-26 TIN CUP MESA		
3	5467.0-68.0	0.81	
7	5471.0-72.0	0.01	
17	5481.0-82.0	12.	
22	5486.0-87.0	3.27	
27	5491.0-92.0	4.38	
37	5501.0-02.0	8.86	
46	5510.0-11.0	0.05	
47	5511.0-12.0	0.73	
52	5516.0-17.0	3.62	
60	5524.0-25.0	0.93	
71	5535.0-36.0	0.03	
75	5539.0-40.0	16.	
78	5542.0-43.0	0.01	
89	5553.0-54.0	4.20	
101	5565.0-66.0	0.18	

36 3 25 E 25
70 W

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

RECEIVED
MAR 14 1985
DIVISION OF OIL
& MINING

CORE ANALYSIS REPORT

FOR

MARATHON OIL COMPANY

VARIOUS WELLS
TIN CUP MESA FIELD
SAN JUAN COUNTY, UTAH

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 1

MARATHON OIL COMPANY
 VARIOUS WELLS
 TIN CUP MESA FIELD
 SAN JUAN COUNTY, UTAH

DATE : 11-NOV-84
 FORMATION :
 DRLG. FLUID: WATER BASE MUD
 LOCATION :

FILE NO : 3804-6918
 ANALYSTS : S.S.
 ELEVATION:

VERTICAL PERM ANALYSIS-VARIOUS WELLS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM VERTICAL	DESCRIPTION
#1-23 TIN CUP MESA			
4	5575.0-76.0	0.01	
5	5576.0-77.0	0.01	
14	5585.0-86.0	0.09	
17	5588.0-89.0	0.17	
#1-25 TIN CUP MESA			
1	5452.0-53.0	0.10	
5	5456.0-57.0	0.13	
6	5416.0-17.0	0.04	
9	5419.0-20.0	2.11	
12	5422.0-23.0	0.01	
16	5426.0-27.0	0.93	
20	5430.0-31.0	3.47	
25	5435.0-36.0	0.03	
37	5447.0-48.0	0.03	
20	5471.0-72.0	0.09	
43	5474.0-75.0	2.32	
#2-23 TIN CUP MESA			
7	5460.0-61.0	30.	
20	5473.0-74.0	0.92	
24	5477.0-78.0	0.96	
32	5485.0-86.0	0.07	

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 2

MARATHON OIL COMPANY
 VARIOUS WELLS

DATE : 11-NOV-84
 FORMATION :

FILE NO : 3804-6918
 ANALYSTS : S.S.

VERTICAL PERM ANALYSIS-VARIOUS WELLS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM VERTICAL	DESCRIPTION
45	5498.0-99.0	0.15	
56	5509.0-10.0	0.04	
60	5513.0-14.0	1.70	
62	5515.0-16.0	0.07	
64	5517.0-18.0	0.64	
71	5524.0-25.0	0.04	
76	5529.0-30.0	0.01	
83	5536.0-37.0	0.86	
84	5537.0-38.0	0.64	
87	5540.0-41.0	7.10	
90	5543.0-44.0	0.04	
108	5561.0-62.0	0.27	
111	5564.0-65.0	0.17	
#3-23 TIN CUP MESA			
11	5589.0-90.0	9.23	
18	5596.0-97.0	0.02	
26	5604.0-05.0	0.04	
30	5608.0-09.0	0.02	
31	5609.0-10.0	1.27	
33	5611.0-12.0	0.02	
38	5616.0-17.0	0.09	
41	5619.0-20.0	0.20	
47	5625.0-26.0	0.04	
51	5629.0-30.0	1.42	
55	5633.0-34.0	6.40	
60	5638.0-39.0	0.54	
63	5641.0-42.0	43.	
66	5644.0-45.0	0.53	

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other hydrocarbon well.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on re-
verse side)

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

2

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SIMO #344320520		5. LEASE DESIGNATION AND SERIAL NO. U-31928
2. NAME OF OPERATOR Marathon Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, Wyoming 82602		7. UNIT AGREEMENT NAME Tin Cup Mesa Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State recommendations. See also space 17 below.) At surface SW SE 500' FNL & 2125' FEL		8. FARM OR LEASE NAME Tin Cup Mesa
14. PERMIT NO. 2-19-82 43-037-30762		9. WELL NO. 3-26
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5101' GL, 5114' KB		10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa
DIVISION OF OIL GAS & MINING		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 26, T38S, R25E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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SEP 03 1985

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(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.)

The Ismay interval was additionally perforated from 5524' KB to 5531' KB and from 5482' KB to 5499' KB with 4 shots per foot.

After perforating the Ismay interval, the perforations from 5531' KB to 5482' KB were acidized with a total of 2350 gallons of 15% HCL containing additives.

The above work was necessary in order to gain as much oil entry into the well bore, so that no oil is swept past and lost due to our water injection program.

The work was discussed between Mr. Greg Noble, BLM Moab, and Mr. Frank Krugh, Marathon Oil Company, Casper, on July 23, 1985, and an after the fact Sundry Notice was agreed to be submitted.

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

SIGNED Doyle L. Jones

TITLE District Production Manager

DATE August 28, 1985

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Marathon Oil Company
ADDRESS P. O. Box 2690
Cody, WY 82414

Well name and number: Tin Cup Mesa #3-26
Field or Unit name: Tin Cup Mesa Lease no. U-31928
Well location: QQ NWNE section 26 township 38S range 25E county San Juan

Is this application for expansion of an existing project? . . . Yes No
Will the proposed well be used for: Enhanced Recovery? . . . Yes No
Disposal? Yes No
Storage? Yes No
Is this application for a new well to be drilled? Yes No
If this application is for an existing well,
has a casing test been performed on the well? Yes No
Date of test: _____
API number: _____

Proposed injection interval: from 5482' to 5531'
Proposed maximum injection: rate 4000 B/D pressure 3600 psig
Proposed injection zone contains oil, gas, and/or fresh water within 1/2 mile of the well.

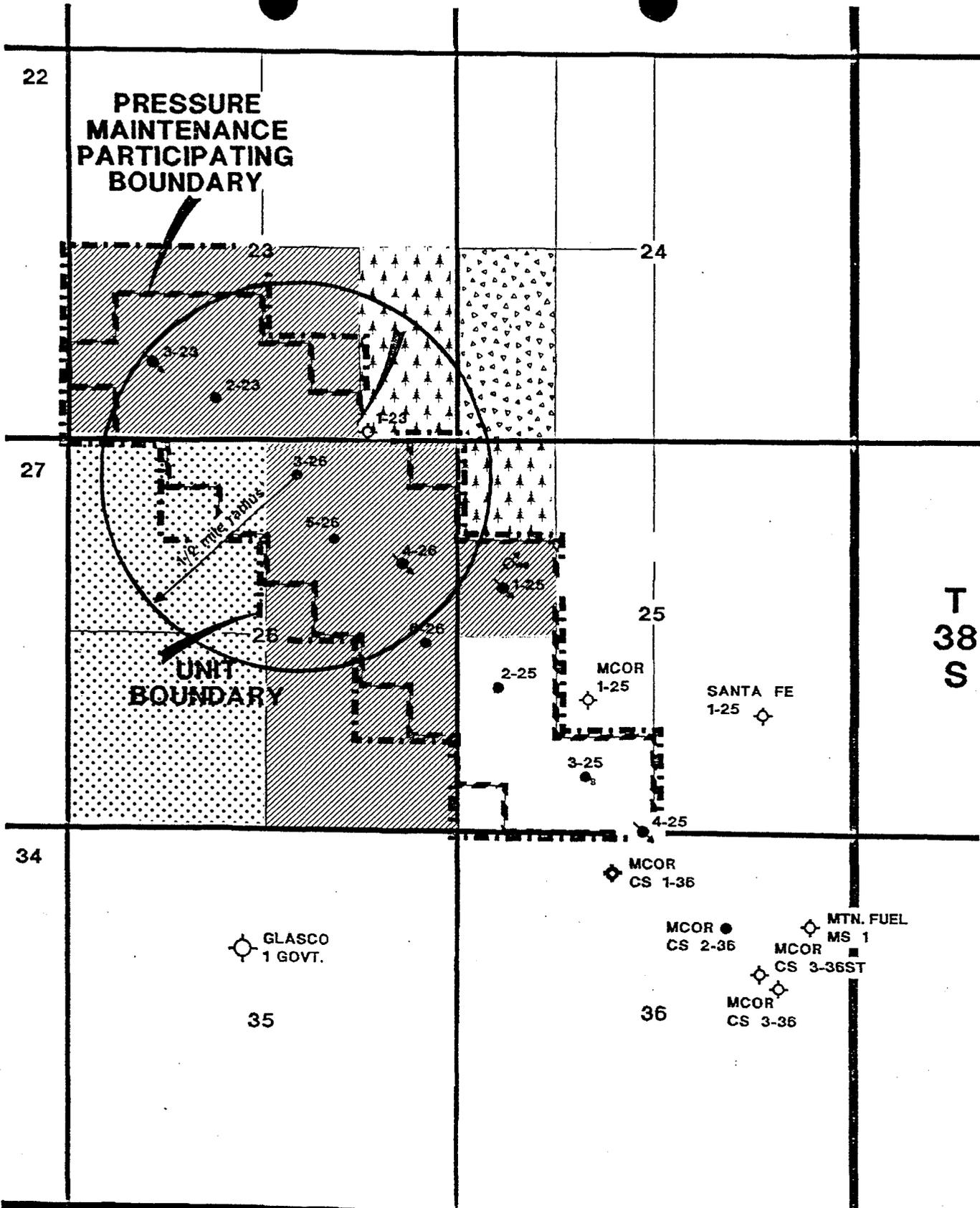
IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: _____

I certify that this report is true and complete to the best of my knowledge.
Name J. R. Kearns Signature *J. R. Kearns*
Title Production Manager Date 3/14/91
Phone No. (307) 587-4961

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:



T
38
S

LEASE OWNERS WITHIN A ONE-HALF MILE RADIUS

- /// MARATHON OIL COMPANY
- ▲▲▲ YATES PETROLEUM CORPORATION
- △△△ P. P. BAUER
- CELSIUS ENERGY COMPANY

MARATHON OIL COMPANY
 ROCKY MOUNTAIN REGION
TIN CUP MESA
 SAN JUAN COUNTY, UTAH
 TIN CUP MESA UNIT

0 1/4 1/2

MILE

Exhibit 'B-1'

7/26/90

MARATHON OIL COMPANY

FIELD NAME Tin Cup Mesa Unit WELL NAME Tin Cup Mesa #3-26

LOCATION 500' FNL, 2125' FEL NE 1/4 SECTION 26 T 38S R 25E

COUNTY San Juan STATE Utah

SURFACE CASING

Hole Size: 17-1/2"
 Casing: 13-3/8", 54.5#, K-55
 Casing Set @: 1,224' GL-Cemented
w/1200 sacks cement to surface

GLE 5,101'

KBE 5,114'

FORMATION TOPS

Chinle	1,575' KB
Shinarump	2,374' KB
Moenkopi	2,428' KB
Cutler	2,494' KB
Honaker Trail	4,334' KB
Paradox	5,274' KB
Upper Ismay	5,429' KB
Hovenweep	5,578' KB
Lower Ismay	5,616' KB
Gothic	5,663' KB
Desert Creek	5,682' KB
Chimney Rock	5,757' KB
Akah	5,778' KB

WELL HISTORY

Spud Date: 3-18-82
 Original Owner: MOC
 IP: 4-27-82 (FOW)
 BOPD: 528 BWPD: 0
 MCFD: 401 GOR: 759
 Completion Treatment: 5,504'-
5,524' KB spotted 1000 gal
15% Dowell MSR acid prior to
perforating.

CURRENT DATA

Pumping Unit: Lufkin
912-365-144
 Tubing: 2-7/8", 6.5#, N-80
 Pump Size: 2 1/2"x2"x24' RWBC
 Rod String: 86
 Remarks: Tubing Tally:
175 jts 2-7/8", N-80 5426.63
1 PTS Exp. Chamber Sub 31.67
1 7" Baker tbg anchor 2.35
3 jts. 2-7/8", N-80 95.00
1 Seating Nipple 1.00
1 Mud Anchor 30.90

CEMENT TOP 970' KB

PERFORATIONS

Upper Ismay: 5,482'-5,499' KB,
5,504'-5,531' KB (4 JSPF, 120°
phasing, .43" dia. hole)

PBTD 5,694' KB

PRODUCTION CASING

Hole Size: 8-3/4"
 Casing: 7", 20# - 26#, K-55
 Casing Set @: 5,774' GL
Cemented w/1220 sacks.

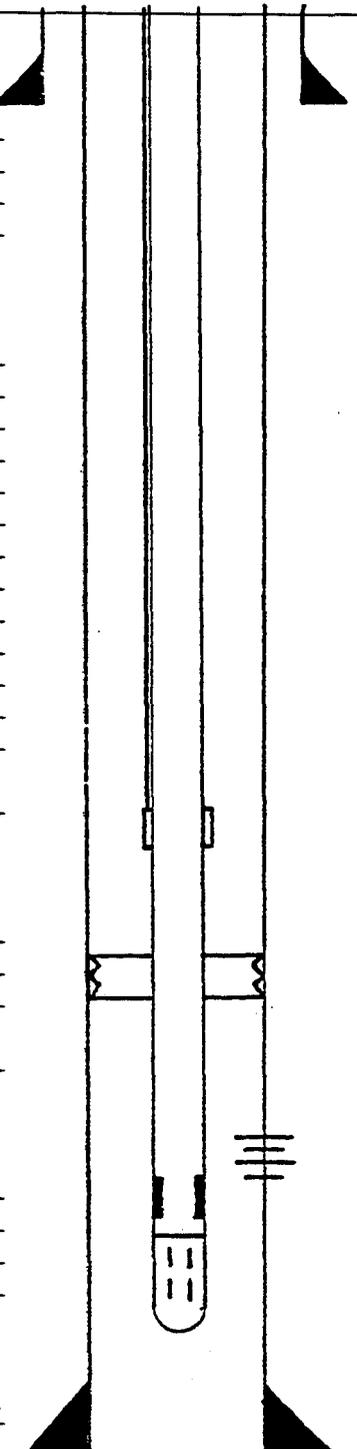
Present Status: Pumping

Present Production:
58 BOPD, 103 BWPD, 118 MCFD

LOGS AVAILABLE

Schlumberger, Coriband, BHC, DLL-
MSFL, CNL-FDC, TDT.

Workover: 1985-perf'd 5524'-
5531' (4 SPF). Acidized all
perforations using PIP Tool &
2350 gals. 15% HCl.



5,780' KB T.D.

PROPOSED COMPLETION
MARATHON OIL COMPANY

2/13/91

FIELD NAME Tin Cup Mesa Unit WELL NAME Tin Cup Mesa #3-26
 LOCATION 500' FNL, 2125' FEL NE½ SECTION 26 T 38S R 25E
 COUNTY San Juan STATE Utah

SURFACE CASING

Hole Size: 17-1/2"
 Casing: 13-3/8", 54.5#, K-55
 Casing Set @: 1,224' GL-Cemented
w/1200 sacks cement to surface

FORMATION TOPS

Chinle	1,575' KB
Shinarump	2,374' KB
Moenkopi	2,428' KB
Cutler	2,494' KB
Honaker Trail	4,334' KB
Paradox	5,274' KB
Upper Ismay	5,429' KB
Hovenweep	5,578' KB
Lower Ismay	5,616' KB
Gothic	5,663' KB
Desert Creek	5,682' KB
Chimney Rock	5,757' KB
Akah	5,778' KB

CEMENT TOP 970' KB

PROPOSED PERFORATIONS

Upper Ismay: 5,476'-5,482' KB

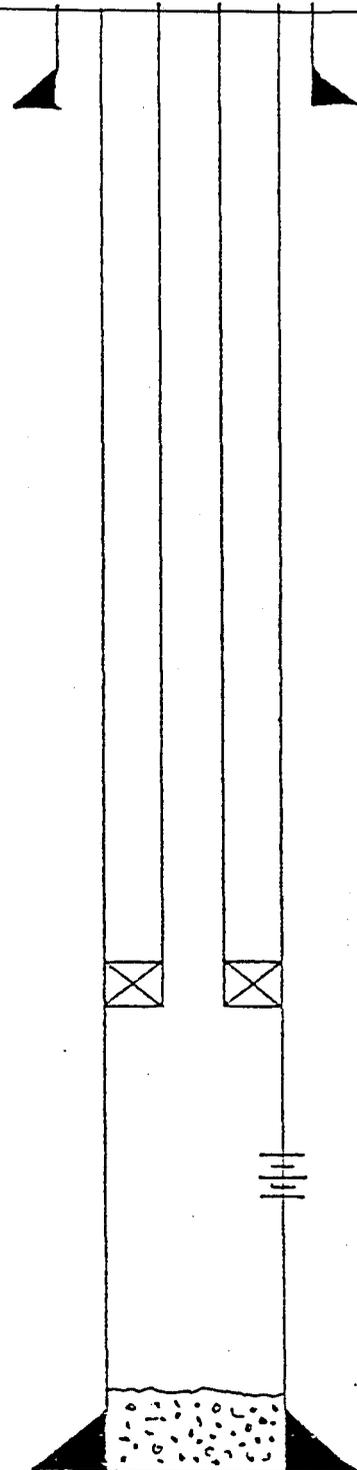
PERFORATIONS

Upper Ismay: 5,482'-5,499' KB,
5,504'-5,531' KB (4 JSPF, 120°
phasing, .43" dia. hole)

PBTD 5,694' KB

PRODUCTION CASING

Hole Size: 8-3/4"
 Casing: 7", 20# - 26#, K-55
 Casing Set @: 5,774' GL
Cemented w/1220 sacks.



5,780' KB T.D.

GLE 5,101'

KBE 5,114'

WELL HISTORY

Spud Date: 3-18-82
 Original Owner: MOC
 IP: 4-27-82 (FOW)
 BOPD: 528 BWPD: 0
 MCFD: 401 GOR: 759
 Completion Treatment: 5,504'-
5,524' KB spotted 1000 gal
15% Dowell MSR acid prior to
perforating.

CURRENT DATA

Pumping Unit:
 Tubing: 2-7/8", 6.5#, N-80,
Internally Coated
 Pump Size: _____
 Rod String: _____
 Remarks: _____

Proposed packer setting
depth at 5,350' KB.

LOGS AVAILABLE

Schlumberger, Coriband, BHC,
DLL-MSFL, CNL-FDC, TDT.

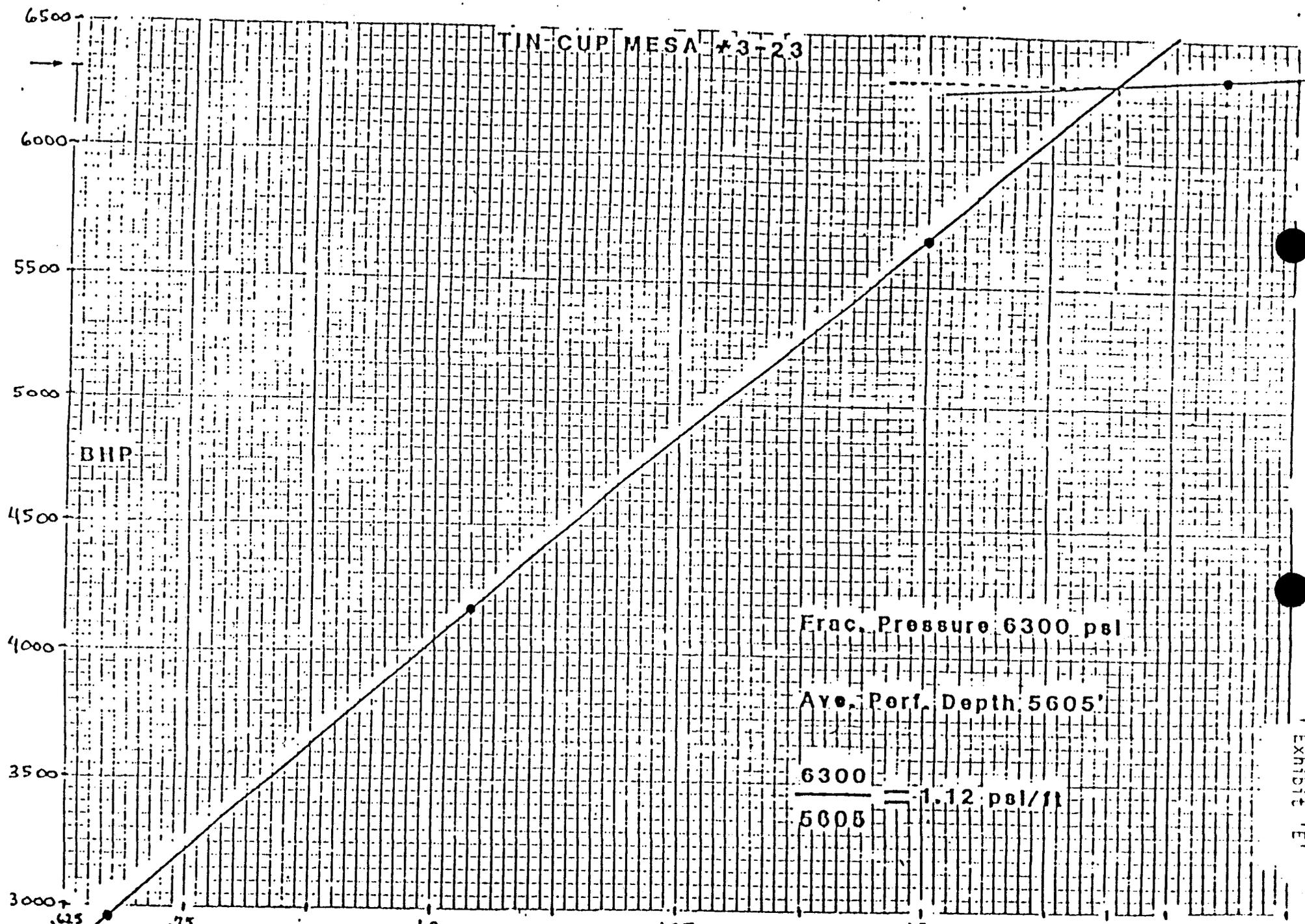
Exhibit 'D'

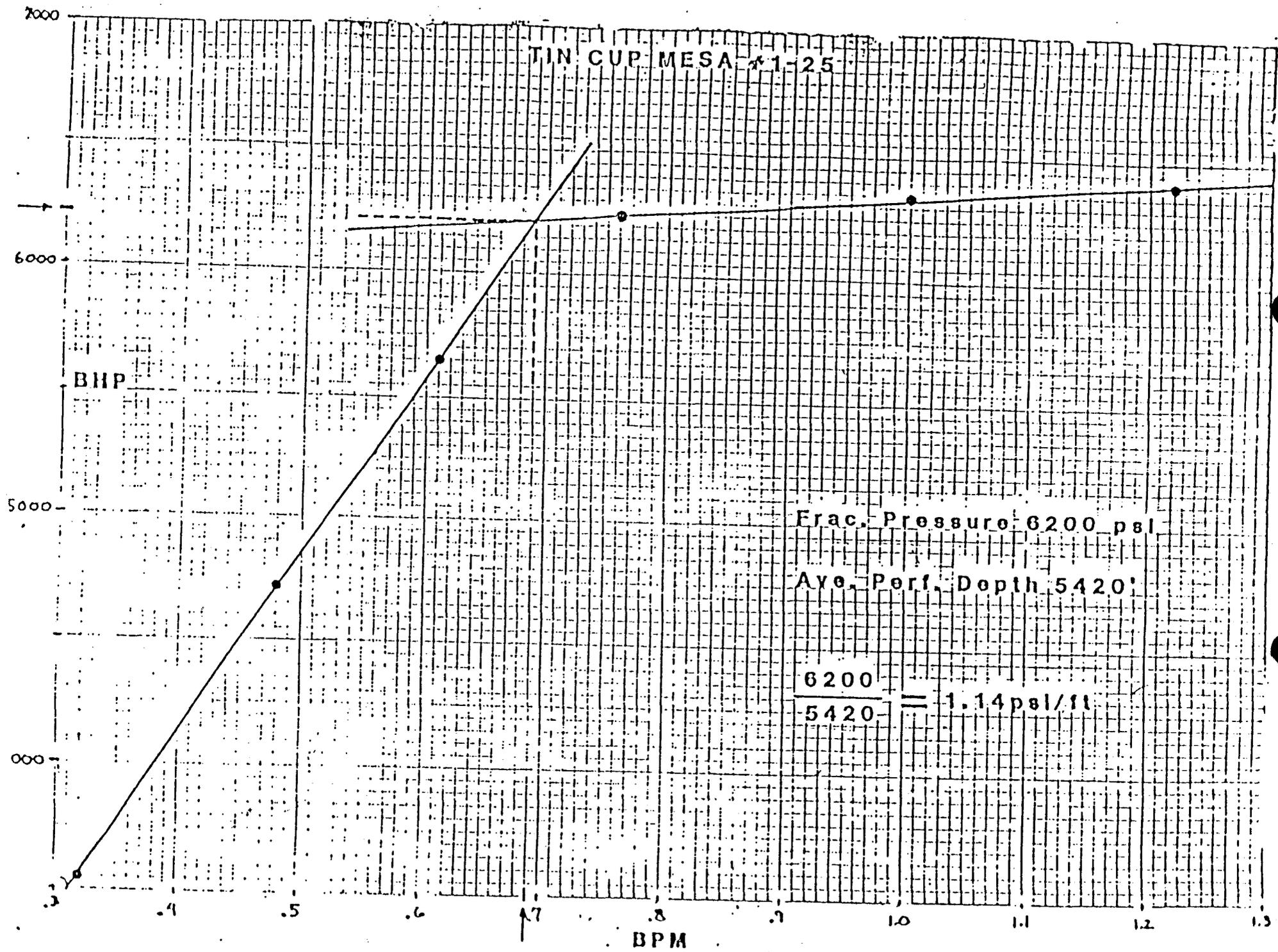
SUMMARY OF WATER ANALYSES*
AT TIN CUP MESA, UTAH

	<u>Cutler Water Properties</u>	<u>Ismay Water Properties</u>
Ph	7.9	6.4
Temp °F	68	100
TDS (mg/l)	75,562	256,894
TSS (mg/l)	<1.0	N.A.
Ca (mg/l)	4,840	11,235
Na (mg/l)	18,360	67,880
Cl ⁻ (mg/l)	39,440	147,008
O ₂ (ppb)	<10	<100
CO ₃ (mg/l)	<1	<1
Fe (mg/l)	1.7	9.0
H ₂ S (mg/l)	<0.1	<0.1
SO ₄ (mg/l)	1,380	735
HCO ₃ (mg/l)	41	67
K (mg/l)	78	2,864
Sr (mg/l)	170	375
Ba (mg/l)	<20	<20

*These tests were performed by DRC personnel.

TIN CUP MESA #3-23





FIELD NAME Tin Cup Mesa WELL NAME Tin Cup Mesa #4-26

LOCATION 1698' FNL, 720' FEL SECTION 26 T 38S R 25E

COUNTY San Juan STATE Utah

SURFACE CASING

Hole Size: 12-1/4"
 Casing: 9-5/8", 40#, N-80
 Casing Set @: 1,500' KB with 610
sx to surface.

GLE 5,112'

KBE 5,125'

FORMATION TOPS

Shinarump	2,397' KB
Moenkopi	2,469' KB
Cutler	2,540' KB
Honaker Trail	4,352' KB
Paradox	5,286' KB
Upper Ismay	5,442' KB
Hovenweep	5,585' KB
Lower Ismay	5,628' KB
Desert Creek	5,694' KB
Chimney Rock	5,766' KB
Akah	5,793' KB

WELL HISTORY

Spud Date: 10-14-83
 Original Owner: MOC
 IP: 11-23-83
 BOPD: 310 BWPD: 6
 MCFD: 336 GOR: 1,084
 Completion Treatment: None

CURRENT DATA

Pumping Unit: _____
 Tubing: 178 jts. 2-7/8",
N-80, Int. Ctd.
 Pump Size: _____
 Rod String: _____
 Remarks: Converted to
injection on 5-19-89.

CEMENT TOP Surface

PERFORATIONS

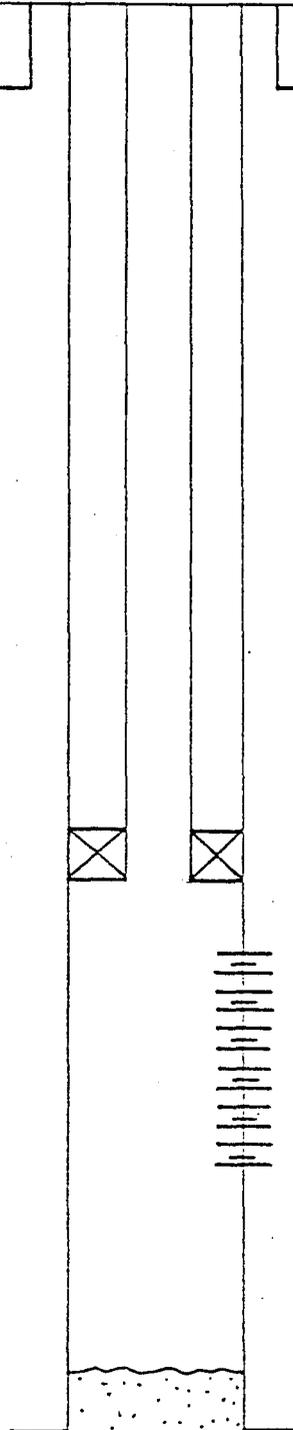
Upper Ismay:	5,490-96'
	5,504-10'
	5,518-24'
	5,529-35'
	5,540-45'
	5,553-62'

11-13-85: SI for HGOR.
8-22-87: Installed 912 PU &
POP.
11-17-87: Acidized U. Ismay
perfs from 5,504-62' KB with
PPIP tool using 50 gal. per
1/2 ft. 15% FeHCL acid. Set
Howco EZ-SV cement retainer
at 5,549' KB.
2-5-88: Ran PBU.
4-18-88: Reperfed 5,490-96'
KB and Musol A squeeze.
1-1-89: SI prior to
conversion.
5-19-89: Drld cmt retainer,
ran BHP survey, UIC test, set
top of Baker 47B Inverted
Lok-Set Packer with 6 element
system at 5,401' KB, and ran
injection profile.

PBTD 5,719' KB

PRODUCTION CASING

Hole Size: 8-3/4"
 Casing: 7", 26#, J-55
 Casing Set @: 5,815' with 1125
sx cement to surface.



5,815' KB T.D.

FIELD NAME Tin Cup Mesa Unit WELL NAME Tin Cup Mesa #5-26

LOCATION 1375' FNL, 1635' FEL SECTION 26 T 38S R 25E

COUNTY San Juan STATE Utah

SURFACE CASING

Hole Size: 12-1/4"
 Casing: 9-5/8", 40#, N-80
 Casing Set @: 2,250' KB with
1,220 sx to surface.

GLE 5,097'

KBE 5,111'

FORMATION TOPS

Shinarump	2,378' KB
Moenkopi	2,424' KB
Cutler	2,460' KB
Honaker Trail	4,344' KB
Paradox	5,274' KB
Upper Ismay	5,426' KB
Hovenweep	5,576' KB
Lower Ismay	5,606' KB
Gothic	5,670' KB
Desert Creek	5,690' KB

WELL HISTORY

Spud Date: 3-3-88
 Original Owner: MOC
 IP: 12-12-88
 BOPD: 257 BWPD: 23
 MCFD: 295 GOR: 1148
 Completion Treatment:
Acidized w/200 gal/ft. 15%
HCL containing 2 gal/1000
LoSurf 300, 1 gal/1000 HC-2,
and 3 gal/1000 HAI-85.

CEMENT TOP 2,210' KB

PERFORATIONS

5,478'-5,506' KB (4 JSPF)
5,512'-5,526' KB (4 JSPF); Sqzd.

CURRENT DATA

Pumping Unit:
 Tubing: 2-7/8", 6.5#, N-80
 Pump Size: _____
 Rod String: _____
 Remarks:
4-22-89: Put well on pump.

PBTD 5,674' KB

PRODUCTION CASING

Hole Size: 8-1/2"
 Casing: 7", 26#, N-80
 Casing Set @: 5,360' KB with
1,040 sx to 2,210' KB.

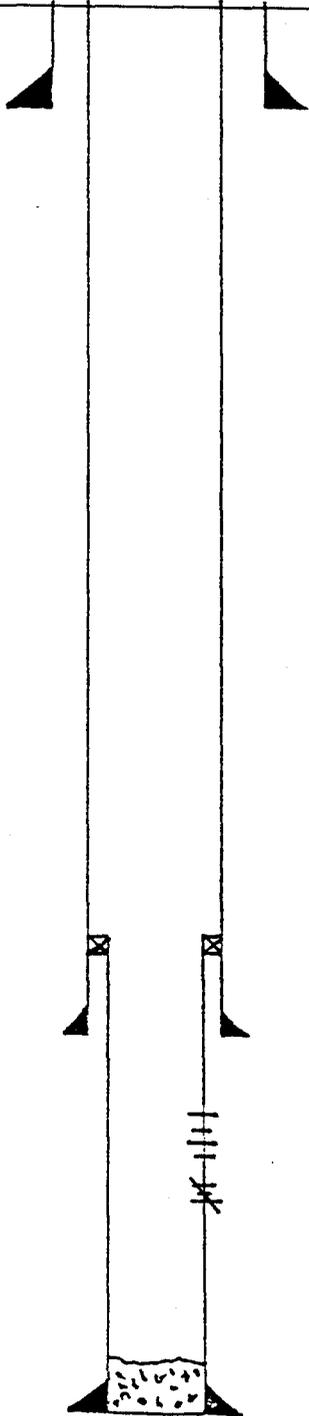
9-6-89: Increased stroke
length from 105.5" to 145".

12-18-89: Increased SPM from
8 to 10.

LINER

Casing: 5", 18# P110 from
5,014'-5,780' KB w/145 sx. cement
across entire liner per CBL.

6-22-90: Squeezed all perfs
with cement. Reperfed 5494'-
5506' KB and acidized with 50
gal/ft. 15% Fe HCL DAD.
Perforated new interval 5478'
5494' KB and acidized with 50
gal/ft. 15% Fe HCL DAD acid.
POP at 9 SPM x 145" SL.



5,781' T.D.

12-20-90: Pulled rod pump equipment and ran rental submersible equipment.

FIELD NAME Tin Cup Mesa WELL NAME Tin Cup Mesa #2-23

LOCATION 587' FSL, 3171' FEL SECTION 23 T 38S R 25E

COUNTY San Juan STATE Utah

SURFACE CASING

Hole Size: 12-1/4"
 Casing: 9-5/8", 36#, K-55 ST&C
 Casing Set @: 1,324' KB with 310
sxs Dowell Lite plus additives
and 240 sxs Class "B" with
additives. Bumped plug to 1000
psi; cemented to surface.

FORMATION TOPS

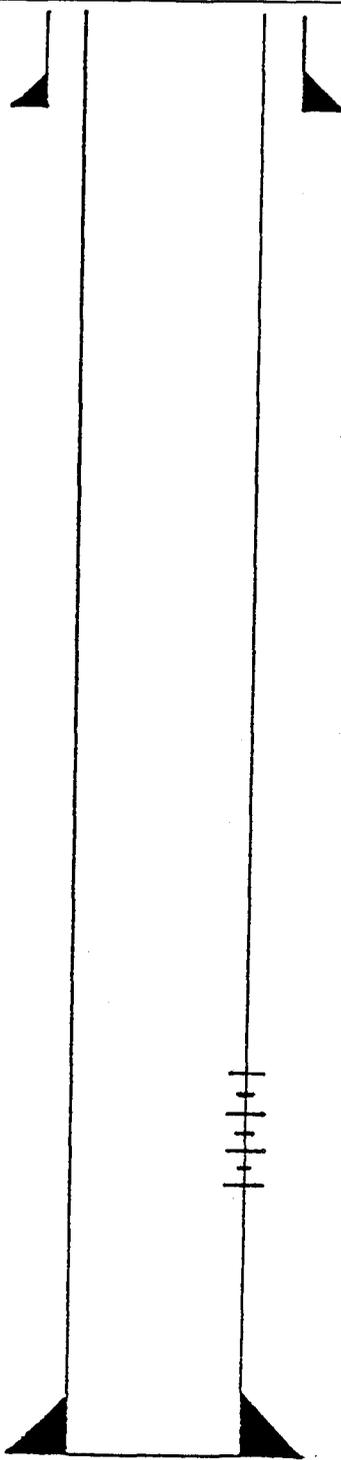
Chinle	1,544' KB
Shinarump	2,346' KB
Moenkopi	2,400' KB
Cutler	2,462' KB
Honaker Trail	4,319' KB
Paradox	5,267' KB
Upper Ismay	5,416' KB
Hovenweep	5,578' KB
Lower Ismay	5,612' KB
Gothic	5,660' KB
Desert Creek	5,681' KB
Chimney Rock	5,754' KB
Akah	5,774' KB
Salt	5,803' KB

CEMENT TOP 2,800' per CBL

PERFORATIONS

Upper Ismay: 5462-70'	(4 JSPF)
5470-74'	(4 JSPF)
5479-87'	(4 JSPF)
5492-5500'	(2 JSPF)
5507.5-12.5'	(2 JSPF)
5512.5-20'	(4 JSPF)
5520-25'	(2 JSPF)

PBTD 5,714' KB



5,805' KB T.D.

GLE 5,095'
 KBE 5,108'

PRODUCTION CASING

Hole Size: 8-3/4"
 Casing: 5 1/2", 20#, N-80, LT&C
 Casing Set @: 5,780' KB w/800
sxs Class "B" plus additives
1000 sxs Class "B"/65-35 Poz
with additives. Plug bumped
to 2900 psi.

WELL HISTORY

Spud Date: 9-18-82
 Original Owner: MOC
 IP: 1-26-83
 BOPD: 164 BWPD: 40
 MCFD: 212 GOR: 1,293
 Completion Treatment:
Acidized with 500 gal. 15%
MSR & 1000 gal. 15% HCl.

CURRENT DATA

Pumping Unit: Lufkin 320
 Tubing: 2-7/8", 6.5#, J-55
 Pump Size: 2 1/2" x 2" x 20'
 Rod String: 86 EL Rods
 Remarks: _____

10/13/89: Recompleted Upper
Ismay. Perfs: 5,462-70'.
Acidized all Upper Ismay
perfs with 50 gal/ft. 15%
Fe HCL acid using a SAP
tool.

FIELD NAME Tin Cup Mesa WELL NAME Tin Cup Mesa #3-23

LOCATION 1055' FSL, 1266' FWL SECTION 23 T 38S R 25E

COUNTY San Juan STATE Utah

SURFACE CASING

Hole Size: 12-1/4"
 Casing: 9-5/8", 36# & 40#, K-55
 Casing Set @: 1,488' KB with 540
sxs cement to surface.

FORMATION TOPS

Chinle	1,646' KB
Shinarump	2,445' KB
Moenkopi	2,500' KB
Cutler	2,562' KB
Honaker Trail	4,413' KB
Paradox	5,363' KB
Upper Ismay	5,516' KB
Hovenweep	5,677' KB
Lower Ismay	5,709' KB
Gothic Shale	5,756' KB
Desert Creek	5,775' KB
Chimney Rock	5,848' KB
Akah	5,868' KB

CEMENT TOP 2,650' per CBL

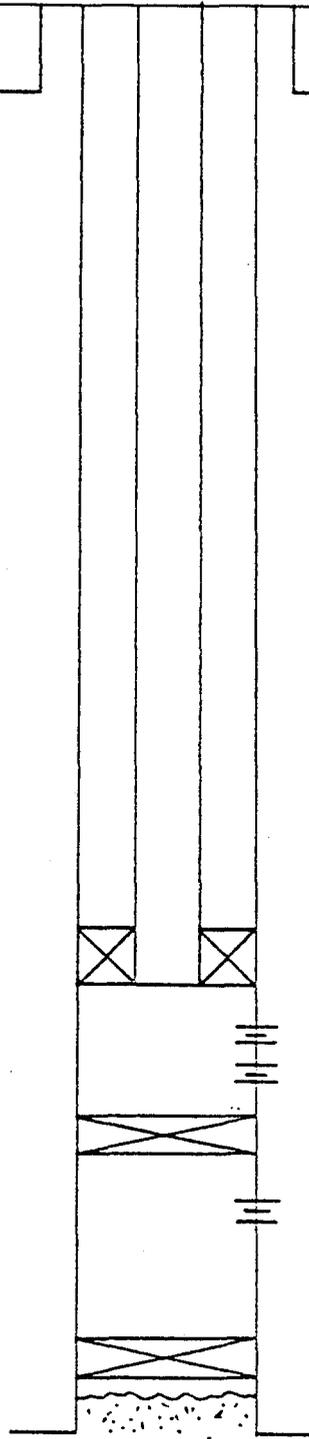
PERFORATIONS

Upper Ismay: 5,578-97'
5,608-16'
5,627-47' (below
retainer)

PBTD 5,621' KB

PRODUCTION CASING

Hole Size: 8-3/4"
 Casing: 5-1/2", 20#, N-80
 Casing Set @: 5,895' with 1,000
sxs cement.



5,896' KB T.D.

GLE 5,170'

KBE 5,184'

WELL HISTORY

Spud Date: 12-5-82
 Original Owner: MOC
 IP: 9-9-83
 BOPD: 53 BWPD: 107
 MCFD: 89 GOR: 1,686
 Completion Treatment:
5,588-97' with 1,000 gals.
MSR 28% HCl.

CURRENT DATA

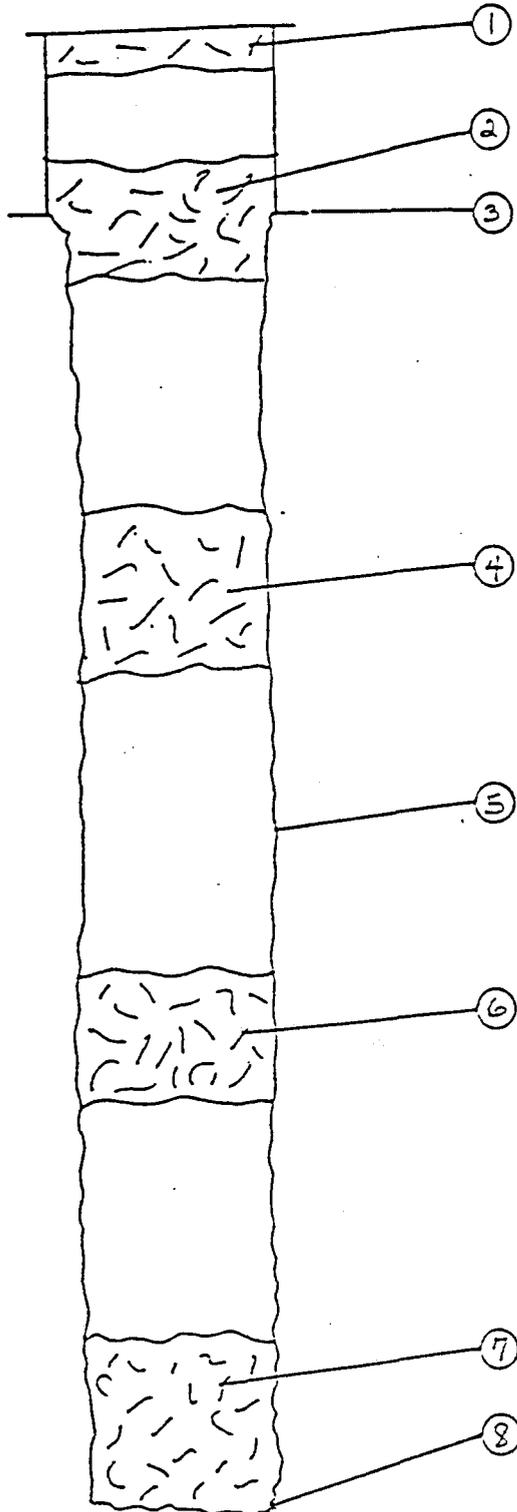
Pumping Unit:
 Tubing: 170 Jts. 2-7/8",
6.5#, N-80 Int. Coating
 Pump Size:
 Rod String:
 Remarks: Converted to
injection on 1-26-85. First
injection 5-9-85.

Baker Inverted Lok-Set Packer
with Internal Coating at 6
element system set at
5,455.71'. SN ID = 1.78".

Baker K-1 cement retainer set
at 5,621' KB.

Arrow 5-1/2" cement retainer
pushed to bottom.

Description



1. A Ten sack cement plug to surface.
2. A 75 sack cement plug from 1,250' - 1,450'.
3. 9 5/8" 36# K-55 casing set at 1,348' and cemented to surface with 546 sacks of cement.
4. A 70 sack cement plug from 2,470' - 2,670'.
5. Open hole - uncased to a TD of 5,810'.
6. A 70 sack cement plug from 4,225' - 4,425'.
7. A 455 sack cement plug from 5,350' - 5,810'.
8. TD 5,810'.



P.O. Box 2690
Cody, Wyoming 82414
Telephone 307/587-4961

March 14, 1991

RECEIVED

MAR 19 1991

DIVISION OF
OIL GAS & MINING

State of Utah
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: Application for Approval to Convert
Tin Cup Mesa #3-26 to a Class II Injection Well
NWNE 500' FNL & 2125' FEL
Section 26, Township 38 South, Range 25 East
San Juan County, Utah

Dear Sir:

43-037-30762

Pursuant to R615-5-2 of the Rules and Regulations of the State of Utah Division of Oil, Gas and Mining, Marathon Oil Company hereby makes application for approval to convert and operate Tin Cup Mesa #3-26 as a Class II Water Injection well. The information requested by Rule R615-5-2 of the DOGM is as follows:

- 1) Tin Cup Mesa #3-26 is presently producing from the Ismay Formation. Upon conversion to injection approval, the well will be completed, equipped, operated and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.
- 2) A properly completed Form DOGM-UIC-1 is attached as Exhibit 'A'.
- 3) A plat showing the locations of Tin Cup Mesa #3-26, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well. Exhibit 'B' and Exhibit 'B-1'.
- 4) Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity are on file with the Division.

- 5) A copy of cement bond or comparable log, run for the proposed injection well after casing was set and cemented, is on file with the Division.
- 6) A description of the casing of the Tin Cup Mesa #3-26 well is shown in Exhibits 'C' and 'C-1'. The casing annulus will be pressure tested to 1000 psi surface and witnessed by the DOGM prior to commencing injection operations.
- 7) The type of fluid to be used for injection will be Cutler Formation water obtained from the Tin Cup Mesa #1 water supply well and produced Ismay Formation water which is separated from produced oil at the Tin Cup Mesa Processing Facility. The Tin Cup Mesa Processing Facility and the Tin Cup Mesa #1 Water Supply Well are both located in the NW1/4 of Section 25, Township 38 South, Range 25 East, San Juan County, Utah. It is estimated that a maximum of 4000 BWPD will be injected.
- 8) Laboratory analyses are shown in Exhibit 'D' of:
 - A. the fluid to be injected (Cutler and Ismay)
 - B. the fluid in the formation into which the fluid is being injected (Ismay)
 - C. as shown on Exhibit 'D' the Cutler water is of higher purity than the Ismay water.
- 9) The proposed injection pressures are:

Average 2400 psi
Maximum 3600 psi
- 10) Evidence and data to support a finding that the proposed conversion to injection of Tin Cup Mesa #3-26 will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata is as follows:

Injectivity tests were previously performed on Tin Cup Mesa #1-25 and #3-23 in the same Upper Ismay reservoir. Water was injected through existing production perforations. From these tests a fracture pressure and frac gradient were obtained. Refer to Exhibits 'E' and 'F'. Results are summarized below.

	<u>Tin Cup Mesa #3-23</u>	<u>Tin Cup Mesa #1-25</u>
Frac Gradient	1.12 psi/ft.	1.14 psi/ft.
Fracture Pressure (Bottom Hole)	6,300 psi	6,200 psi
Fracture Pressure (Surface)	3,867 psi	3,848 psi

Maximum surface injection pressure requested for Tin Cup Mesa #3-26 is 3600 psi, which is more than 200 psi below fracture pressure. High pressure shut down devices and relief valves will be designed to operate at 3500 psi and 3600 psi, respectively, to insure that the fracture pressure will not be exceeded.

11. The injection zone is the Upper Ismay of the Paradox Formation. The Upper Ismay is composed of porous and permeable limestone and dolomite. At the #3-26 Tin Cup Mesa location, the injection zone is expected to be 109' thick with the top at 5456' GL. The porous and permeable carbonate rocks vary in thickness from 0' to 120', but they are restricted to the Tin Cup Mesa Field only. Outside the field, the carbonate rocks are composed of tight limestone and they are less than 20' thick.

The confining stratum directly above the injection zone is the Upper Ismay massive anhydrite. The massive anhydrite is a dense, tight rock which is estimated to be 16' thick at the #3-26 Tin Cup Mesa location with the top at 5440' GL. The anhydrite thins across the field to 5' and thickens away from the field to 90' or more. Above the massive anhydrite is an impermeable layer of interbedded anhydrite and calcareous and dolomitic shales. The thickness of this layer ranges between 20' and 45' and it is expected to be approximately 24' thick at the #3-26 location with the top at 5416' GL. A black shale overlies the layer of interbedded anhydrite and shales.

The black shale is expected to be approximately 14' thick at the #3-26 Tin Cup Mesa location and the top will be at approximately 5402' GL.

The massive anhydrite overlying the injection zone extends for three miles from the Tin Cup Mesa Field. The interbedded anhydrite and shales extend more than 3 miles from the Tin Cup Mesa Field. The black shale above the interbedded anhydrite and shales extends throughout the southern Paradox Basin. All three of these units, the massive anhydrite, the interbedded anhydrite and shales, and the black shale, are impermeable and they will effectively seal off the oil, gas, and water of the injection zone from any strata above the Upper Ismay.

The confining stratum below the injection zone is the Hovenweep Shale. The Hovenweep Shale is composed of impermeable calcareous and dolomitic shales. The Hovenweep is approximately 38' thick at the #3-26 Tin Cup Mesa location and the top is at 5565' GL. The Hovenweep extends more than a few miles beyond the Tin Cup Mesa Field and throughout the southern Paradox Basin. The Hovenweep is impermeable and it will

effectively seal off the oil, gas and water of the injection zone from any strata below the Upper Ismay.

12. There are five wells located within a one-half mile radius of the #3-26 Tin Cup Mesa Well, shown on Exhibit 'G'. Wellbore schematics showing the mechanical condition for each well are attached (Exhibit 'G-1' through Exhibit 'G-5'). As shown on each wellbore diagram, the cement top behind the casing of each well is of sufficient height to prevent migration of any fluid up or down from the interested zone.
13. An affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well is attached as Exhibit 'H'.
14. If additional information is required please contact the Marathon Oil Company office in Cody, Wyoming.

If no objections to the granting of this Application are timely filed for converting the Tin Cup Mesa #3-26 well to an Ismay injector from any lease operators, owners or surface owners within a one-half (1/2) mile radius thereof, Applicant requests that this "Application" be approved administratively.

If objections to the converting of the Tin Cup Mesa #3-26 well to an Ismay injector are timely filed, then Applicant requests that the matter be set for hearing and that it be advised of the hearing date.

Six (6) additional copies of this Application are attached hereto.

Respectfully submitted,

MARATHON OIL COMPANY



J. R. Kearns
Production Manager
Rocky Mountain Region

JRK/EMG/cjc

Attachments

State of Utah
Division of Oil, Gas and Mining

EXHIBIT 'H'

Application of Marathon Oil Company
to Convert to Injection
Tin Cup Mesa #3-26, located in
Section 26, Township 38 South,
Range 25 East, San Juan County, Utah

AFFIDAVIT

STATE OF UTAH)
) SS.
COUNTY OF SAN JUAN)

J. R. Kearns of legal age, being first duly sworn, upon oath states:

The following named people constitute all lease operators, owners, and surface owners (as defined by the Utah Division of Oil, Gas and Mining Laws) within a one-half (1/2) mile radius of the proposed injection well, described in the Application to which this Affidavit is attached, to wit:

SURFACE OWNERS

Bureau of Land Management
P. O. Box 970
Moab, Utah 84532

LEASE HOLDERS

Marathon Oil Company
P. O. Box 2690
Cody, WY 82414

P. P. Bauer
7800 E. Union Avenue
#130
Denver, CO 80237

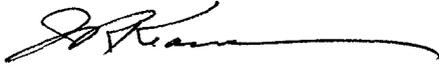
Celsius Energy Company
P. O. Box 11070
Salt Lake City, Utah 84147

Yates Petroleum Corporation
105 S. 4th Street
Artesia, NM 88210

The addresses listed after the names of the operator and surface owners constitute the last mailing address of said operator and owner as far as the Applicant Marathon Oil Company and the undersigned have been able to ascertain.

State of Utah
Division of Oil, Gas and Mining
Exhibit 'H'
Page Two

On the 14th day of March, 1991, Applicant caused a full and true copy of the Application to which this Affidavit is attached, to be mailed to the operators or owners, other than Applicant, at their addresses herein before mentioned.

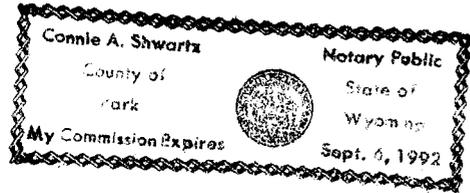


J. R. Kearns
Production Manager
Rocky Mountain Region

Subscribed and sworn to before me this 14th day of March, 1991.

My commission expires 9-6-1992.

Connie A Shwartz
Notary Public





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

Norman H. Bangertter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

April 3, 1991

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Gentlemen:

Re: Cause No. UIC-125

Enclosed is a Notice of Agency Action before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Lisa Clement

Lisa Clement
Administrative Secretary
Oil and Gas

ldc
Enclosure
WOI127/6



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

April 3, 1991

San Juan Record
P.O. Box 879
937 East Highway 666
Monticello, Utah 84535

Gentlemen:

Re: Cause No. UIC-125

Enclosed is a Notice of Agency Action before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisa Clement".

Lisa Clement
Administrative Secretary
Oil and Gas

ldc
Enclosure
WOI127/7

AFFIDAVIT OF PUBLICATION

Public notice

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

IN THE MATTER OF THE APPLICATION OF MARATHON OIL COMPANY FOR ADMINISTRATIVE APPROVAL OF THE TIN CUP MESA 3-26 WELL LOCATED IN SECTION 26, TOWNSHIP 38 SOUTH, RANGE 25 EAST, S.L.B. & M., SAN JUAN COUNTY, UTAH AS A CLASS II INJECTION WELL

NOTICE OF AGENCY ACTION
CAUSE NO. UIC-125

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Marathon Oil Company for administrative approval of the Tin Cup Mesa 3-26 well, located in Section 26, Township 38 South, Range 25 East, San Juan County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.615-10, Administrative Procedures.

The proposed interval to be utilized for water injection is 5482' to 5531' (Upper Ismay of the Paradox Formation). The proposed injection pressures are 2400 psig (average) and 3600 psig (maximum) and the proposed injection volume is 4,000 barrels water per day.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 2nd day of April, 1991.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
s/ R. J. Firth

Associate Director, Oil and Gas
Published April 10, 1991, in The San Juan Record, Monticello, Utah.

I, Joyce Martin, being duly sworn, depose and say that I am the publisher of **The San Juan Record**, a weekly newspaper of general circulation published at Monticello,

Utah every Wednesday; that notice of agency action, Cause

No. UIC-125

a copy of which is hereunto attached, was published in the regular and entire issue of each number of said newspaper for a period of one issues, the first publication having been made on April 10, 1991. and the

last publication having been made on _____.

Joyce A. Martin
Publisher

Subscribed and sworn to before me this 10th day of April,

A.D. 1991.

Ingrid K. Adams
Notary Public residing at Monticello, Utah

My commission expires December 2, 1991

COPY

COPY

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

---ooOoo---

IN THE MATTER OF THE APPLICATION	:	NOTICE OF AGENCY ACTION
OF MARATHON OIL COMPANY FOR	:	
ADMINISTRATIVE APPROVAL OF THE	:	CAUSE NO. UIC-125
TIN CUP MESA 3-26 WELL LOCATED IN	:	
SECTION 26, TOWNSHIP 38 SOUTH,	:	
RANGE 25 EAST, S.L.B. & M.,	:	
SAN JUAN COUNTY, UTAH AS A CLASS II	:	
INJECTION WELL	:	

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

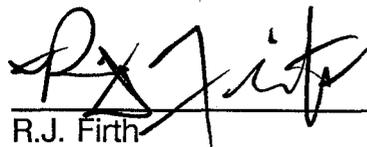
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DATED this 2nd day of April, 1991.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



R.J. Firth
Associate Director, Oil and Gas

Publication Notices were sent to the following:

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

San Juan Record
P.O. Box 879
937 East Highway 666
Monticello, Utah 84535

Marathon Oil Company
P.O. Box 2690
Cody, Wyoming 82414

Bureau of Land Management
P.O. Box 970
Moab, Utah 84532

Greg Oberly
Environmental Protection Agency
999 18th Street, Suite 500
Denver, Colorado 80202



Lisa Clement
Administrative Secretary
April 4, 1991



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

GLH

Norman H. Bangarter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

May 16, 1991

J.R. Kearns
Marathon Oil Company
P.O. Box 2690
Cody, Wyoming 82414

Dear Mr. Kearns:

Re: Conversion of the Tin Cup Mesa 3-26 Well, Section 26, Township 38 South, Range 25 East, San Juan County, Utah, to a Disposal Well

In accordance with Utah Admin. R. 615-5-3-3, administrative approval for conversion of the referenced well to a Class II injection well is granted.

The following actions are necessary to fully comply with this approval:

1. Compliance with the UIC requirements for operation, maintenance and reporting for Class II injection wells.
2. Conformance with all conditions of the submitted application.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Best regards,


for
Dianne R. Nielson
Director

ldc
cc: BLM, Moab
R.J. Firth
WUI229

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 17 '91

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

Injector

2. Name of Operator

Marathon Oil Company

3. Address and Telephone No.

P. O. Box 2690, Cody, Wyoming 82414 (307) 587-4961

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

500' FNL & 2125' FEL, Sec. 26, T38S, R25E

5. Lease Designation and Serial No.

U-13655

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Tin Cup Mesa

8. Well Name and No.

Tin Cup Mesa #3-26

9. API Well No.

43-037-30762

10. Field and Pool, or Exploratory Area

Tin Cup Mesa

11. County or Parish, State

San Juan County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On May 17, 1991 the casing was tested at 1000 psi surface pressure for 15 minutes. No leaks were detected. The well was then placed on Ismay injection on May 17, 1991. Presently the well is injecting 1500 BWPD at 0 psi. Prior to this the well was an Ismay injector.

RECEIVED

JUN 21 1991

DIVISION OF
OIL GAS & MINING

Dist: BLM-Orig + 3--cc: (SUDOGM-2, WRF, FMK, WTR-5, SPO, Title & Contracts (Houston))

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

Signed R.P. Mealon

Title

Regulatory Coordinator

5/21/91

Date

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title

Branch of Fluid Minerals
Moab District

Date

JUN 12 1991

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

*See Instruction on Reverse Side

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(June 1990)

UNITED STATES
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BUREAU OF LAND MANAGEMENT

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

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SUBMIT IN TRIPLICATE

1. Type of Well
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Injector

2. Name of Operator
Marathon Oil Company

3. Address and Telephone No.
P. O. Box 2690, Cody, Wyoming 82414 (307) 587-4961

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U-13655

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7. If Unit or CA, Agreement Designation
Tin Cup Mesa

8. Well Name and No.
Tin Cup Mesa #3-26

9. API Well No.
43-037-30762

10. Field and Pool, or Exploratory Area
Tin Cup Mesa

11. County or Parish, State
San Juan County, Utah

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<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water

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

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JUN 21 1991

DIVISION OF
OIL GAS & MINING

Dist: BLM-Orig + 3--cc: (SUDOGM-2, WRF, FMK, WTR-5, SPO, Title & Contracts (Houston))

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

Signed R P Mealon

Regulatory Coordinator

5/21/91

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title Branch of Fluid Minerals
Moab District

Date JUN 12 1991

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

*See instruction on Reverse Side

RECEIVED

WRF-999

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN 27 1991

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

DIVISION OF
SUNDRY NOTICES AND REPORTS ON WELL OIL GAS & MINING

5. Lease Designation and Serial No.
U-13655

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Tin Cup Mesa

8. Well Name and No.

Tin Cup Mesa #3-26

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43-037-30762

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	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Sundry Correction	<input type="checkbox"/> Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On June 12, 1991 a sundry notice stating, that the prior status of this well was an Ismay Injector, was approved by your office. The prior status was reported incorrectly and should have read "Ismay Producer". Please make the necessary file changes.

Dist: BLM-Orig + 3--cc: SUDOGM-2, WRF, FMK, WTR-5, SPO, Title & Contracts (Houston)

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

Signed R.P. Mialon by FMK

Regulatory Coordinator

6/21/91

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
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Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

RECEIVED

JUL 15 1991

DIVISION OF
OIL GAS & MINING

May 16, 1991

J.R. Kearns
Marathon Oil Company
P.O. Box 2690
Cody, Wyoming 82414

Dear Mr. Kearns:

Re: Conversion of the Tin Cup Mesa 3-26 Well, Section 26, Township 38 South, Range 25 East, San Juan County, Utah, to a Disposal Well

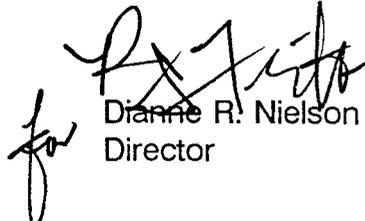
In accordance with Utah Admin. R. 615-5-3-3, administrative approval for conversion of the referenced well to a Class II injection well is granted.

The following actions are necessary to fully comply with this approval:

1. Compliance with the UIC requirements for operation, maintenance and reporting for Class II injection wells.
2. Conformance with all conditions of the submitted application.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Best regards,


Dianne R. Nielson
Director

ldc
cc: BLM, Moab
R.J. Firth
WUI229



P.O. Box 2690
Cody, Wyoming 82414
Telephone 307/587-4961

July 11, 1991

RECEIVED

JUL 15 1991

DIVISION OF
OIL GAS & MINING

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City Utah 84180-1203

RE: UIC Pressure Test
Tin Cup Mesa #3-26
Sec. 26, T38S, R25E

Dear Mr. Hunt:

Attached is a copy of the sundry notice which states that on May 17, 1991, Tin Cup Mesa well #3-26 was successfully pressure tested to 1,000 psi surface pressure for 15 minutes.

The purpose of the sundry notice was to notify the Department that water injection was started in Tin Cup Mesa well #3-26 after the casing was successfully pressure tested to 1,000 psi for 15 minutes.

The sundry notice did not state that the UIC pressure test was witnessed by Ken Walsh (Marathon Engineer), Tom Klobberdanz (Marathon Production Foreman), Robert Higgins (Big A Well Service Operator), and Todd Henderson (Wright's Roustabout Gang Pusher).

Should this letter and the attached sundry notice not be sufficient documentation of the successful 1,000 psi pressure test, please advise me as soon as possible.

Sincerely,

MARATHON OIL COMPANY

A handwritten signature in cursive script that reads 'E. M. Grant'.

E. M. Grant
Regulatory Coordinator
Rocky Mountain Region

EMG/cjc

Attachment

RECEIVED

JUL 15 1991

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIVISION OF

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

SUNDRY NOTICES AND REPORTS ON WELLS OIL GAS & MINING

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

5. Lease Designation and Serial No.
U-13655
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

1. Type of Well
 Oil Well Gas Well Other

Injector

Tin Cup Mesa

2. Name of Operator
Marathon Oil Company

8. Well Name and No.
Tin Cup Mesa #3-26

3. Address and Telephone No.
P. O. Box 2690, Cody, Wyoming 82414 (307) 587-4961

9. API Well No.
43-037-30762

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
500' FNL & 2125' FEL, Sec. 26, T38S, R25E

10. Field and Pool, or Exploratory Area
Tin Cup Mesa

11. County or Parish, State
San Juan County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On May 17, 1991 the casing was tested at 1000 psi surface pressure for 15 minutes. No leaks were detected. The well was then placed on Ismay injection on May 17, 1991. Presently the well is injecting 1500 BWPD at 0 psi. Prior to this the well was an Ismay injector.

Dist: BLM-Orig + 3--cc: SUDOGM-2, WRF, FMK, WTR-5, SPO, Title & Contracts (Houston)

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

Signed *R.P. Meador*

Regulatory Coordinator

5/21/91

Title _____

Date _____

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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U-13655

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
Tin Cup Mesa

8. Well Name and No.
Tin Cup Mesa #3-26

9. API Well No.
43-037-30762

10. Field and Pool, or Exploratory Area
Tin Cup Mesa

11. County or Parish, State
**San Juan, Utah
Park, Wyoming**

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other **Injector**

2. Name of Operator
Marathon Oil Company

3. Address and Telephone No.
P. O. Box 2690, Cody, Wyoming 82414 (307) 587-4961

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
500' FNL, 2125' FEL, Sec. 26, T38S, R25E

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The following work has been completed:

- 1991
- 5/14 Pulled production equipment.
- 5/15 Perforated the Upper Ismay 5,476'-5,499' with 4JSPF.
- 5/16 Acidized same with 50 gallons of 15% HCL per foot.
- 5/17 Pressure tested the casing to 1000 psi for 15 minutes and placed the well on injection.

RECEIVED

JUL 18 1991

DIVISION OF OIL GAS & MINING

(subdom)
Dist: BLM-Orig + 3--cc: ~~W0000~~-2, WRF, FMK, Title & Contracts (Houston), WTR-5, SPO

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

Signed *R P Meaban* Title Regulatory Coordinator Date 6/27/91

(This space for Federal or State office use)

Approved by _____ Title Branch of Fluid Minerals Date JUL 9 1991
Conditions of approval, if any: Moab District

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

pressure. TCM #4-25 injection was also down as was one of the two Tin Cup Mesa injection pumps. It was decided by yourself and Mr. Baker that until the injection pump was repaired, TCM #4-25 would remain down and injection would continue into TCM #3-26, bleeding off the pressure mechanically plus installing a bleed-off valve on the casing so its pressure would not exceed 1000 psig.

- 4/6/92 Initiated a workover to find leak source. Determined it was caused by a failed O-ring seal in the female portion of the on-off tool. This female portion was redressed and re-run. Please refer to the attached on-off tool diagram.
- 4/9/92 Well was returned to injection, at approximately 1500 BWIPD and 3300 psig.
- 5/19/92 Jim Baker of Marathon contacted Dan Jarvis, advising him TCM #3-26 was still experiencing some pressure buildup on the casing although it was less significant than before the 4/6/92 workover.

To Present Casing continues to have pressure on it, fluctuating from 0 to 300 psig. There is no flow from the casing.

On July 15, 1992, another pressure test was performed on the casing. This was a lengthy test, lasting nearly 24 hours. The well continued to inject at 3300 psig tubing pressure throughout this test. Its results were quite interesting but I believe will prove this well does have casing integrity. The results were as follows:

Date	Time	Event
7/15/92	1:10 pm.	Applied 1000 psig on casing.
"	6:00 pm.	Casing had 1000 psig.
"	8:45 pm.	Casing had 975 psig.
"	10:00 pm.	Casing had 965 psig.
7/16/92	12:00 am.	Casing had 955 psig.
"	6:00 am.	Casing had 955 psig.
"	7:30 am.	Casing had 955 psig.
"	9:00 am.	Casing had 1040 psig.
"	12:00 pm.	Casing had 1040 psig.

The theory we have for these fluctuating pressures is they seem to coincide with ambient temperatures. The pressures become lower with cooler ambient temperatures because the injection water going down the tubing is cooler, causing the tubing to contract and shrink. This would create a resulting increase in annular voidage and cause the pressure to drop. It is significant to mention the ~~casing pressure was 1000 psig for nearly five hours.~~ It is Marathon's opinion the well does have casing integrity presently.

One other explanation, besides the theory presented above, is the male portion of the on-off tool may be eroded slightly and leaking. This is reasonable because the female portion area around the O-ring body seal was pitted. The male portion is attached to the top of the packer which wasn't pulled because the high shut-in pressures of the well would require in excess of 17.1 ppg kill fluid or an extended flowback period to drop near-wellbore reservoir pressure. It was felt either action was not viable because they could adversely affect the well's injection capability and ultimately reservoir performance.

Believing the casing integrity is currently intact, we propose the casing integrity be verified semi-annually by physically performing a casing pressure test to 1000 psig for 15 minutes. We can advise you on this test timing so you can have the opportunity to witness. Results of this testing will be reported on our daily pumper's reports as well as daily morning reports. This information will be available upon your request or we can automatically submit it to your office. Any pressure test failure will result in the well being immediately shut-in and corrective action started.

Marathon will continue its present operations of monitoring casing pressures daily. Monthly reports of casing pressure can be provided to your office if desired. Please advise whether this above proposal is acceptable or not and how you prefer to handle the reporting aspects. Any questions can be directed to my attention at the above letterhead address or by calling me at (307)587-4961 Ext. 3185 or Jim Baker at Ext. 3213.

Sincerely,

MARATHON OIL COMPANY

TK Skinner

T. K. Skinner
Production Superintendent
Western Plains

/TKS (CFR-999)

xc: W. T. Reish
D. R. Hall
E. M. Grant

MARATHON OIL COMPANY

5/29/92

FIELD NAME Tin Cup Mesa Unit WELL NAME Tin Cup Mesa #3-26 (WIW)
 LOCATION 500' FNL, 2125' FEL NE 1/4 SECTION 26 T 38S R 25E
 COUNTY San Juan STATE Utah

SURFACE CASING

Hole Size: 17-1/2"
 Casing: 13-3/8", 54.5#, K-55
 Casing Set @: 1,224' GL-Cemented
w/1200 sxs, cmt. circ'd to surface

GLE 5,101'

KBE 5,114'

FORMATION TOPS

Chinle 1,575' KB
 Shinarump 2,374' KB
 Moenkopi 2,428' KB
 Cutler 2,494' KB
 Honaker Trail 4,334' KB
 Paradox 5,274' KB
 Upper Ismay 5,429' KB
 Hovenweep 5,578' KB
 Lower Ismay 5,616' KB
 Gothic 5,663' KB
 Desert Creek 5,682' KB
 Chimney Rock 5,757' KB
 Akah 5,778' KB

WELL HISTORY

Spud Date: 3-18-82
 Original Owner: MOC
 IP: 4-27-82 (FOW)
 BOPD: 528 BWPD: 0
 MCFD: 401 GOR: 759
 Completion Treatment: 5,504'-
5,524' KB spotted 1000 gal
15% Dowell MSR acid prior to
perforating.

CURRENT DATA

Pumping Unit:
 Tubing: 2-7/8", 6.5#, N-80,
set at 5,354' KB

Remarks:
5/15/91: Perforated 5,476'-
5,499'. Acidized with 50
gal./ft. of 15% HCl PAD with
SAP tool. Set Baker inverted
Lok-Set packer on 2-7/8"
tubing at 5,350' KB. Convert
to WIW. Baker on/off tool
on top of packer (2.25" I.D.
'R' profile).

Workover: 1985-perf'd 5524'-
5531' (4 SPF). Acidized all
perforations using PIP Tool
& 2350 gals. 15% HCl.

CEMENT TOP 1100' KB (CBL)

PERFORATIONS

Upper Ismay: 5,476'-5,499' KB,
5,504'-5,531' KB (4 JSPF, 120°
phasing, .43" dia. hole)

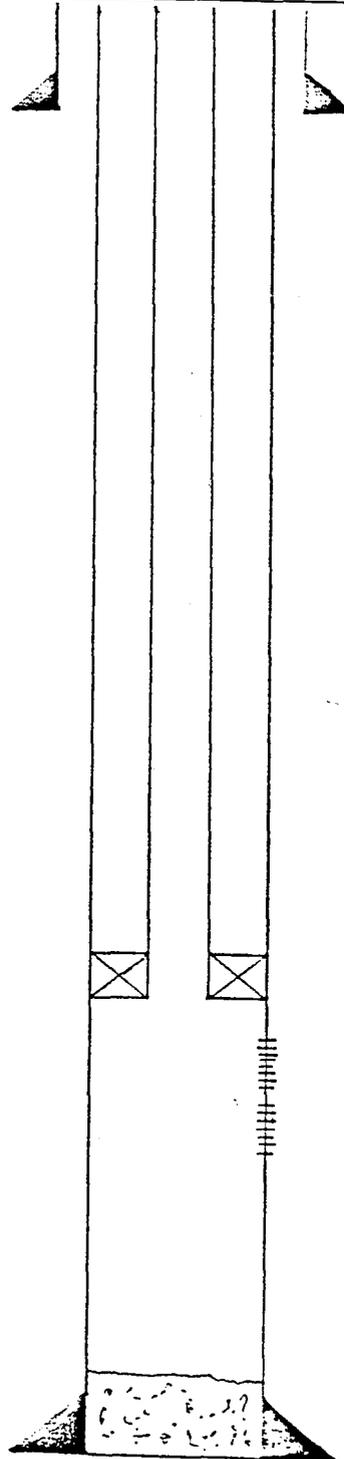
PBTD 5,687' KB

PRODUCTION CASING

Hole Size: 8-3/4"
 Casing: 7", 20# - 26#, K-55
 Casing Set @: 5,774' GL
Cemented w/1220 sacks

LOGS AVAILABLE

Schlumberger, Coriband, BHC, DLL-
ISFL, CNL-FDC, TDT.

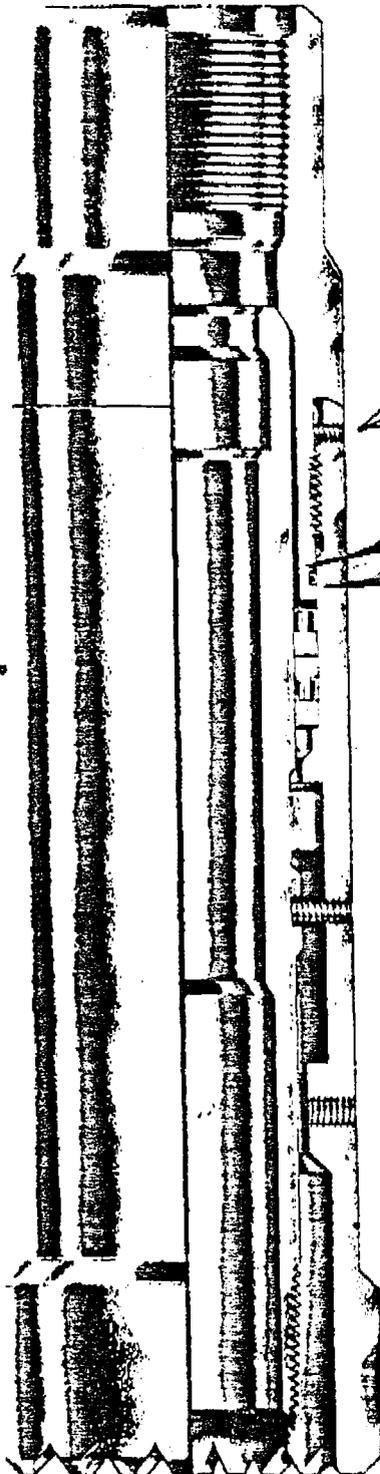


5,780' KB T.D.



RETRIEVABLE PACKER SYSTEMS

MODELS "FR"™ AND "FR-22"™
ON-OFF SEALING CONNECTORS

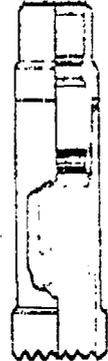


On-Off Connector

*Fluid out around this
Scraper during pressure
Test.*

*Washover body
water cut at
O ring seal.*

OFF POSITION



1-Notch

IN POSITION



Locking
Groove

Seals

J-Pin

Washover
Shoe

Seal
Nipple

Pin
Center Line



acts, as well as washing over, without
seal damage.

- Right-hand or left-hand release J-slot.
- J-slot can be shear-pinned for safety.
- Can be dressed to shear down or up.
- Receptacle design permits washover
down to top of packer.

SPECIFICATION GUIDE

Casing OD in mm	Tubing OD in mm	Size (Washover Body OD & Tubing Thread & BPC Profile Bore)	Washover Shoe OD in mm	Max BPC Profile Bore in mm	Pressure Rating ¹ Internal PSI kPa	External PSI kPa	Standard Thread Sizes ² (Box Up & Pin Down) in mm
4-1/2 114.3	2-3/8 & smaller 60.3	3-3/4x2-3/8"	3.75 95.25	1.875 47.63			2-3/8 OD EU & RD 60.3
5 127.0	2-7/8 & smaller 73.0	4-1/2x2-3/8"	4.50 114.30	2.312 58.78			2-7/8 OD EU & RD 73.0
5-5/8 143.0	3-1/2 & smaller 88.9	5-1/2x2-3/8"	5.50 139.70	2.812 71.42	5,000 424	5,000 345	3-1/2 OD EU & RD 88.9
6-1/2 165.1	3-7/8 & smaller 98.5	6-1/2x2-7/8"	6.50 165.10	3.312 84.22			3-7/8 OD EU & RD 98.5
6-7/8 174.6	4-1/4 & smaller 111.8	7-1/4x2-7/8"	7.25 184.15	3.812 96.72			4-1/4 OD EU & RD 111.8
7-1/8 182.7	4-7/8 & smaller 124.8	8-1/2x2-7/8"	8.50 215.90	4.312 109.70			4-7/8 OD EU & RD 124.8
7-7/8 199.1	5-1/2 & smaller 141.3	9-1/2x2-7/8"	9.25 235.15	4.812 122.72			5-1/2 OD EU & RD 141.3

ORDERING EXAMPLE:
PRODUCT NO. 683-14
 SIZE: 4-1/2 x 2-3/8 x 1.81 MODEL "FR" ON-OFF
 SEALING CONNECTOR w/2-3/8" OD EU & RD
 Box & Pin UN-60 4.7 (b)1 TUBING w/1.81 "F" Profile.

¹ Specify BPC Profile Bore based on "Max BPC Profile Bore" data column. See ordering example.
² When using 2-3/8 in. (60.3 mm) tubing with a Size 47 Lock-Sat Packer, and the On-Off Tool it is to be coupled directly to the packer body, a size 5-1/2x2-7/8x(2.31 or smaller) must be used.
³ For Models "FR" and "FL" ONLY.
⁴ Threads shown below are "standard" for the respective sizes. Other threads are available on request.



**Marathon
Oil Company**

P.O. Box 2690
Cody, Wyoming 82414
Telephone 307/587-4961

July 11, 1991

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City Utah 84180-1203

RE: UIC Pressure Test
Tin Cup Mesa #3-26
Sec. 26, T38S, R25E

Dear Mr. Hunt:

Attached is a copy of the sundry notice which states that on May 17, 1991, Tin Cup Mesa well #3-26 was successfully pressure tested to 1,000 psi surface pressure for 15 minutes.

The purpose of the sundry notice was to notify the Department that water injection was started in Tin Cup Mesa well #3-26 after the casing was successfully pressure tested to 1,000 psi for 15 minutes.

The sundry notice did not state that the UIC pressure test was witnessed by Ken Walsh (Marathon Engineer), Tom Kloberdanz (Marathon Production Foreman), Robert Higgins (Big A Well Service Operator), and Todd Henderson (Wright's Roustabout Gang Pusher).

Should this letter and the attached sundry notice not be sufficient documentation of the successful 1,000 psi pressure test, please advise me as soon as possible.

Sincerely,

MARATHON OIL COMPANY

A handwritten signature in cursive script that reads 'E. M. Grant'.

E. M. Grant
Regulatory Coordinator
Rocky Mountain Region

EMG/cjc

Attachment



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

May 16, 1991

J.R. Kearns
Marathon Oil Company
P.O. Box 2690
Cody, Wyoming 82414

Dear Mr. Kearns:

Re: Conversion of the Tin Cup Mesa 3-26 Well, Section 26, Township 38 South, Range 25 East, San Juan County, Utah, to a Disposal Well

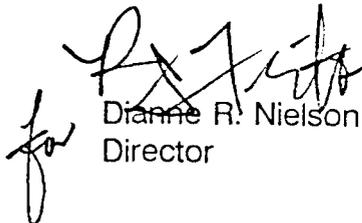
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The following actions are necessary to fully comply with this approval:

1. Compliance with the UIC requirements for operation, maintenance and reporting for Class II injection wells.
2. Conformance with all conditions of the submitted application.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Best regards,


Dianne R. Nielson
Director

ldc
cc: BLM, Moab
R.J. Firth
WUI229

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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U-13655

6. If Indian, Allottee or Tribe Name

7. If Unit or C.A. Agreement Designation

Tin Cup Mesa

8. Well Name and No.
Tin Cup Mesa #3-26

9. API Well No.
43-037-30762

10. Field and Pool, or Exploratory Area
Tin Cup Mesa

11. County or Parish, State
San Juan County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other **Injector**

2. Name of Operator
Marathon Oil Company

3. Address and Telephone No.
P. O. Box 2690, Cody, Wyoming 82414 (307) 587-4961

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
500' FNL & 2125' FEL, Sec. 26, T38S, R25E

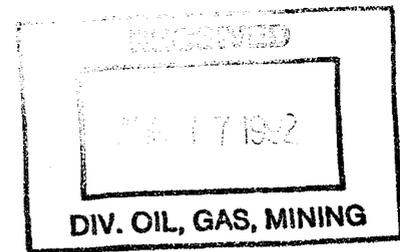
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TYPE OF SUBMISSION	TYPE OF ACTION	
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	<input type="checkbox"/> Altering Casing	<input checked="" type="checkbox"/> Conversion to Injection
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Dist: BLM-Orig + 3--cc: SUDOGM-2, WRF, FMK, WTR-5, SPO, Title & Contracts (Houston)

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

Signed *R.P. Meador* Title Regulatory Coordinator Date 5/21/91

(This space for Federal or State office use)

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

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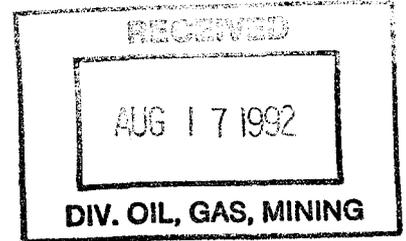
*See instruction on Reverse Side



P.O. Box 2690
Cody, Wyoming 82414
Telephone 307/587-4961

August 13, 1992

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Attn: Mr. Gil Hunt



Re: Casing Pressure History
Tin Cup Mesa #3-26
Sec. 26, T38S, R25E
San Juan County, Utah

43-037-30762

Dear Mr. Hunt:

The purpose of this letter is to update you and your department regarding the above-referenced water injection well and recent casing pressure buildup. All prior correspondence in this matter has been by phone and we felt it necessary to put this in writing. We also are providing you additional information regarding wellwork undertaken to identify the casing pressure source and casing pressure-test results. Lastly, we are proposing a semiannual casing integrity test as a variance, because of the slight casing pressure buildup currently being detected.

Attached is a current wellbore diagram showing casing depths and cement tops for your reference. Listed below is a chronological order of events and descriptions:

Date	Event
5/17/91	Finished conversion to water injection. Casing successfully passed 1000 psig pressure test for 15 minutes. This test was not witnessed by your department but rather by two Marathon and two contract personnel (please refer to a 7/11/91 letter to yourself, of which a copy is attached). Initiated injection into well.
3/11/92	Jim Baker contacted you regarding TCM #3-26 and its recent pressure buildup on the tubing-casing annulus. It appeared to be a very low-volume tubing or packer leak, as the pressure would build to 800 psig in one day after bleeding off the



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
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Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

September 25, 1992

T.K. Skinner
Production Superintendent
Marathon Oil Company
P.O. Box 2690
Cody, Wyoming 82414

Dear Mr. Skinner:

Re: Mechanical Integrity of the Tin Cup Mesa #3-26 Well, Sec. 26, Township 38 South, Range 25 East, San Juan County, Utah

We received the information you sent concerning the casing pressure history and testing of the referenced injection well. It appears from the information provided, there is no serious problem with the mechanical integrity of this well. However, we request that Marathon provide to the Division monthly reports showing daily tubing and casing pressure readings to verify the continued mechanical integrity of the well.

If you have any questions relative to this matter, please call.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt
UIC Program Manager

ldc
cc: R.J. Firth
WUI69

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

6. Lease Designation and Serial Number
U-13655

7. Indian Allottee or Tribe Name

8. Unit or Communitization Agreement
Tin Cup Mesa

9. Well Name and Number
Tin Cup Mesa 3-26

10. API Well Number
43-037-30762

11. Field and Pool, or Wildcat
Tin Cup Mesa Unit

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well
 Oil Well Gas Well Other (specify)

2. Name of Operator
Marathon Oil Company

3. Address of Operator
P O Box 552 Midland, Texas 79702

4. Telephone Number
915-682-1626

5. Location of Well
Footage 500' FNL & 2125' FEL
QQ, Sec. T., R., M. : NW/NE, Sec 26, T38S, R25E
County : San Juan
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

Abandonment * New Construction
 Casing Repair Pull or Alter Casing
 Change of Plans Shoot or Acidize
 Conversion to Injection Vent or Flare
 Fracture Treat Water Shut-Off
 Other Mechanical Integrity Test

Date of Work Completion 7-26-93

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
* Must be accompanied by a cement verification report.

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

A semi annual casing integrity test was run on this well on 7-26-93. The casing tubing annulus was pressured up to 1000 psig. The pressure was held on the annulus for 1 hour and 15 minutes with no leak off. Pressure was bled off and the well returned to service. This test was witnessed by Marathon representative, Todd Henderson.

RECEIVED
AUG 02 1993
DIVISION OF
OIL GAS & MINING

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

Name & Signature Thomas M. Price *Thomas M. Price* Title Adv. Engin. Tech Date 7/29/93
(Use Only)

COPY

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

JAN 7 1996

IN REPLY REFER TO:
UT-922

GAS & MIN.

January 12, 1996

Cochrane Resources, Inc.
P.O. Box 1656
Roosevelt, Utah 84066

RE: Tin Cup Mesa Unit
San Juan County, Utah

Gentlemen:

On January 11, 1996, we received an indenture dated January 9, 1996, whereby Marathon Oil Company resigned as Unit Operator and Cochrane Resources, Inc. was designated as Successor Unit Operator for the Tin Cup Mesa Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective January 12, 1996. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Tin Cup Mesa Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0699 will be used to cover all operations within the Tin Cup Mesa Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Moab (w/enclosure)

~~Division of Oil, Gas & Mining~~

Division of Mineral Adjudication U-923

File - Tin Cup Mesa Unit (w/enclosure)

MMS - Data Management Division ((Attn: Rose Dablo)

Agr. Sec. Chron

Fluid Chron

U-922:TAThompson:tt:01-12-96

JAN 23 1996

RESIGNATION OF OPERATOR

Tin Cup Mesa Unit Area

County of San Juan

State of Utah

Unit Agreement No. 14-08-0001-20391

Under and pursuant to the provisions of Section 5 of the Unit Agreement for the Development and Operation of the Tin Cup Mesa Unit Area, San Juan County, Utah, Marathon Oil Company, the designated Unit Operator under said Unit Agreement, does hereby resign as Unit Operator, effective upon the selection and approval of a successor Unit Operator.

EXECUTED with effect as aforesaid this 29th day of November, 1995.

ATTEST:

MARATHON OIL COMPANY





By: A.R. Kukla
Title: Attorney-In-Fact



12-19-95

Authorized Officer
Bureau of Land Management

Re: Tin Cup Mesa Unit
San Juan County, Utah

Gentlemen:

Enclosed for your consideration and approval, are four (4) copies of Resignation
of Unit Operator ~~and Designation of Successor Operator~~ for the Tin Cup Mesa Unit
Area.

Cochrane Resources, as the designated successor operator under the Tin Cup Mesa Unit
Agreement, hereby certifies that the requisite approvals of the current working interest
owners in the agreement have been obtained to satisfy the requirements for selection
of a successor operator as set forth under the terms and provisions of the agreement.
All operations within the Tin Cup Mesa Unit Agreement will be covered by bond no.
UT0699.

Sincerely,

Ken Allen
Ken Allen
Cochrane Resources, Inc.
President

Enclosures

Mid-Continent Region
Production United States



**Marathon
Oil Company**

P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626

PANAFAX TRANSMITTAL SHEET

SEND THE FOLLOWING PAGES TO:

NAME LISA Cordova

COMPANY NAME Utah Div of Oil & Gas

LOCATION _____

PANAFAX NUMBER: (801) 359-3940

FROM:

NAME David Goosins EXT. 8340

TOTAL NUMBER OF PAGES: 2 (including cover sheet)

IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL BACK ASAP

PHONE _____

COMMENTS _____

FEB-21-96 WED 02:37 PM STATE OF UTAH OIL GAS FAX NO. 538 5340 P. 03/06

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: _____
 Field or Unit name: Tin Cup Mesa Unit API no. _____
 Well location: QQ _____ section _____ township 22E range 25E county San Juan
 Effective Date of Transfer: 12-1-95

CURRENT OPERATOR

Transfer approved by:

Name DAVID S. GOOBINS III Company MARATHON OIL COMPANY
 Signature [Signature] Address PO Box 552
 Title SENIOR PRODUCTION ENGINEER MIDLAND, TX 79702
 Date 2/22/96 Phone (915) 687-8340

Comments:

NEW OPERATOR

Transfer approved by:

Name Ken Allan Company Cochrane Resources Inc
 Signature [Signature] Address P.O. Box 1156
 Title President Roanoke Utah 84061
 Date 2-21-96 Phone (801) 722-5081

Comments:

(State use only)
 Transfer approved by [Signature] Title Environ Manager
 Approval Date 4-4-96

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-DEC 7-FILM
2-DEC 8-FILE
3-VLD
4-RJF
5-LRC
6-SJ

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

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 12-01-95)

TO (new operator) <u>COCHRANE RESOURCES INC</u>	FROM (former operator) <u>MARATHON OIL COMPANY</u>
(address) <u>PO BOX 1656</u>	(address) <u>PO BOX 552</u>
<u>ROOSEVELT UT 84066</u>	<u>MIDLAND TX 79702</u>
phone (<u>801</u>) <u>722-5081</u>	phone (<u>915</u>) <u>687-8155</u>
account no. <u>N 7015</u>	account no. <u>N 3490</u>

***TIN CUP MESA UNIT**

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

Name: **SEE ATTACHED**	API: <u>037-30762</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 1-19-96) (Rec'd 1-23-96)
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 1-22-96) (Rec'd 1-23-96)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (2-8-96 O&G wells) (Inj. Wells 4-3-96)
- Sec 6. Cardex file has been updated for each well listed above. (2-8-96 O&G wells) (Inj. Wells 4-3-96)
- Sec 7. Well file labels have been updated for each well listed above. (2-8-96 O&G wells) (Inj. Wells 4-3-96)
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (2-8-96 O&G wells) (Inj. Wells 4-3-96)
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- See* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A* *See* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- ___ 2. A copy of this form has been placed in the new and former operators' bond files.
- ___ 3. The former operator has requested a release of liability from their bond (yes/no) ____ Today's date _____ 19___. If yes, division response was made by letter dated _____ 19__.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* *DLS* *4/8/96* 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19__, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

KSR T. All attachments to this form have been microfilmed. Date: April 17 1996.

FILING

- ___ 1. Copies of all attachments to this form have been filed in each well file.
- ___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

960119 Blm/SL Apr. eff. 1-12-96.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on
reverse side)

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

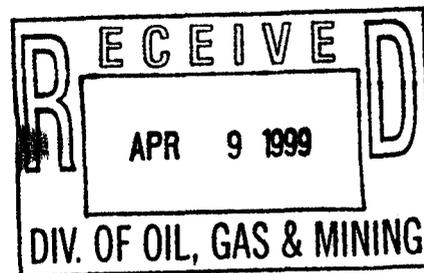
SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-31928																				
2. NAME OF OPERATOR Cochrane Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																				
3. ADDRESS OF OPERATOR PO Box 1656 Roosevelt, Utah 84066		7. UNIT AGREEMENT NAME Tin Cup Mesa																				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 500' FNL, 2125' FEL, NW NE Sec 26, T38S, R25E		8. FARM OR LEASE NAME Tin cup Mesa																				
14. PERMIT NO. 43-037-30762	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5114' KB	9. WELL NO. 3-26																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Tin Cup																				
<table border="0"> <tr> <td colspan="2">NOTICE OF INTENTION TO:</td> <td colspan="2">SUBSEQUENT REPORT OF:</td> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> <td></td> </tr> </table>		NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 26, T38S, R25E
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:																				
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>																			
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>																			
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>																			
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>																				
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.)*		12. COUNTY OR PARISH San Juan																				
		13. STATE Utah																				

Cochrane Resources would like to change the status of this well from a P.O.W. to T.A., until such time as the well is put back on production.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY



COPY SENT TO OFFICER
Date: 4-15-99
Initials: CBR

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

SIGNED unalle TITLE President DATE April 8, 1999

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

INJECTION WELL - PRESSURE TEST

Well Name: TIN CUP MESA 3-26 API Number: 43-037-30762
 Qtr/Qtr: NW/NE Section: 26 Township: 38S Range: 25E
 Company Name: COCHRANE RESOURCES INC.
 Lease: State _____ Fee _____ Federal X Indian _____
 Inspector: J THOMPSON Date: 8/24/99

Initial Conditions:

Tubing - Rate: _____ Pressure: _____ psi

Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	_____	_____
5	_____	_____
10	_____	_____
15	_____	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: _____ psi

Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: No Packer - Did not test. Will send
in Sunday to Check well Status.

[Signature]
Operator Representative

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR Cochrane Resources, Inc. 3. ADDRESS OF OPERATOR PO Box 1656 Roosevelt, Utah 84066 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 500' FNL, 2125' FEL, NW NE Sec 26, T38S, R25E 14. PERMIT NO. 43-037-30762		5. LEASE DESIGNATION AND SERIAL NO. U-31928 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME Tin Cup Mesa 8. FARM OR LEASE NAME Tin Cup Mesa 9. WELL NO. 3-26 10. FIELD AND POOL, OR WILDCAT Tin Cup 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 26, T38S, R25E 12. COUNTY OR PARISH San Juan 13. STATE Utah
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5114; KB		

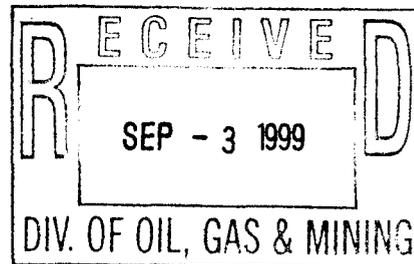
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)*

Cochrane Resources would like to change the status of this well from a WIW to a shut in oil well.



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

SIGNED [Signature] TITLE President DATE September 2, 1999

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Budget Bureau No. 1004-013
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-31928

6. IF INDIAN, ALLOT. # OR TRIBE NAME

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

Cochrane Resources, Inc.

3. ADDRESS OF OPERATOR

PO box 1656 Roosevelt, Utah 84066

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

7. UNIT AGREEMENT NAME

Tin Cup Mesa Unit

8. FARM OR LEASE NAME

Tin Cup Mesa

9. WELL NO.

3-26

10. FIELD AND POOL, OR WELL CAT

Tin Cup Mesa

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

Sec 26, T38S, R25E

12. COUNTY OR PARISH 13. STATE

San Juan Utah

14. PERMIT NO.
43-037-30762

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

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.)*

The subject well started pumping October 15, 2003, making 60 bbls water per day. It is currently making 60 bbls water per day, 10 MCF per day and no oil.

RECEIVED

JAN 08 2004

DIV. OF OIL, GAS & MINING

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

SIGNED Mallo TITLE President DATE January 7, 2004

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

4/1/2008

FROM: (Old Operator): N7015-Cochrane Resources, Inc PO Box 1656 Roosevelt, UT 84066 Phone: 1 (435-722-5081)	TO: (New Operator): N8195-Mar/Reg Oil Company PO Box 18148 Reno, NV 89511 Phone: 1 (775) 852-7444
--	---

CA No.		Unit:		TIN CUP MESA				
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/4/2008
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/3/2008
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/23/2008
- a. Is the new operator registered in the State of Utah: Business Number: 1267088-0143
- b. If **NO**, the operator was contacted on:
- a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on:
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 5/28/2008 BIA
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 5/28/2008
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 7/2/2008

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 7/1/2008
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/1/2008
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UTB000019
- Indian well(s) covered by Bond Number: n/a
- a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

COMMENTS:

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
SEE ATTACHED

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:
SEE ATTACHED

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
SEE ATTACHED

2. NAME OF OPERATOR:
COCHRANE RESOURCES, INC. N7015

9. API NUMBER:

3. ADDRESS OF OPERATOR:
PO BOX 1656 CITY ROOSEVELT STATE UT ZIP ~~84606~~ 84066

PHONE NUMBER:
(435) 722-5081

10. FIELD AND POOL, OR WILDCAT:
TIN CUP MESA

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **SEE ATTACHED; EXHIBIT "A"**

COUNTY: **SAN JUAN**

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

STATE: **UTAH**

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

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

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

The successor Operator for this well will be:
Mar/Reg Oil Company
PO Box 18148 **N8195**
Reno, NV 89511
(775) 852-7444

Agreed and accepted this 2nd day of June 2008
effective April 1, 2008

Mar/Reg Oil Company
By: Rhonda Ahmad
Rhonda Ahmad
President
Mar/Reg State Wide Bond # is UTB000019

NAME (PLEASE PRINT) KEN ALLEN TITLE PRESIDENT
SIGNATURE _____ DATE _____

(This space for State use only)
APPROVED 7/1/2008
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
JUN 03 2008
DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

		5. LEASE DESIGNATION AND SERIAL NUMBER: SEE ATTACHED
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: SEE ATTACHED
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: SEE ATTACHED
2. NAME OF OPERATOR: COCHRANE RESOURCES, INC. N7015		9. API NUMBER:
3. ADDRESS OF OPERATOR: PO BOX 1656 CITY ROOSEVELT STATE UT ZIP 84608		PHONE NUMBER: (435) 722-5081
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED; EXHIBIT "A" COUNTY: SAN JUAN		10. FIELD AND POOL, OR WILDCAT: TIN CUP MESA
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 84066		STATE: UTAH

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

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

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

The successor Operator for this well will be:
Mar/Reg Oil Company
PO Box 18148
Reno, NV 89511
(775) 852-7444

Agreed and accepted this 3rd day of June 2008

Mar/Reg Oil Company

By: _____
Rhonda Ahmad
President
Mar/Reg State Wide Bond # is UTB000019

NAME (PLEASE PRINT) KEN ALLEN	TITLE PRESIDENT
SIGNATURE <i>Ken Allen</i>	DATE 6-3-2008

(This space for State use only)
APPROVED 7/1/2008
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
JUN 04 2008
DIV. OF OIL, GAS & MINING

Exhibit A Well List

Tin Cup Mesa Unit Field

<u>API#</u>	<u>Lease Type</u>	<u>Well Name</u>	<u>Well Type</u>	<u>County</u>	<u>Location</u>	<u>Utah Entity #</u>
43-037-30690	Federal	TIN CUP MESA 1-25	Water Injection Well	SAN JUAN	25 SWNW T38S R25E	2765
43-037-30762	Federal	TIN CUP MESA 3-26	Oil Well	SAN JUAN	26 NWNE T38S R25E	2765
43-037-30808	Federal	TIN CUP MESA 2-23	Oil Well	SAN JUAN	23 SESW T38S R25E	2765
43-037-30815	Federal	TIN CUP MESA 3-23	Oil Well	SAN JUAN	23 SWSW T38S R25E	2765
43-037-30941	Federal	TIN CUP MESA 4-26	Oil Well	SAN JUAN	26 SENE T38S R25E	2765
43-037-30983	Federal	TIN CUP MESA 2-25	Oil Well	SAN JUAN	25 NWSW T38S R25E	2765
43-037-31020	Federal	TIN CUP MESA 3-25	Oil Well	SAN JUAN	25 SESW T38S R25E	2765
43-037-31145	Federal	TIN CUP MESA 4-25	Oil Well	SAN JUAN	25 SESW T38S R25E	2765
43-037-31368	Federal	TIN CUP MESA 5-26	Oil Well	SAN JUAN	26 SWNE T38S R25E	2765
43-037-31540	Federal	TIN CUP MESA 6-26	Oil Well	SAN JUAN	26 NESE T38S R25E	2765
43-037-31761	Federal	WDW 1	Water Disposal Well	SAN JUAN	25 SWNW T38S R25E	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO
3180
UT-922

May 28, 2008

Mar/Reg Oil Company
P. O. Box 18148
Reno, Nevada 89511

Re: Tin Cup Mesa Unit
San Juan County, Utah

Dear Ms. Ahmad:

On May 23, 2008, we received an indenture dated May 7, 2008, whereby Cochrane Resources, Inc. resigned as Unit Operator and Mar/Reg Oil Company was designated as Successor Unit Operator for the Tin Cup Mesa Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective May 28, 2008. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Tin Cup Mesa Unit Agreement.

Your statewide oil and gas bond no. UTB000019 will be used to cover all operations within the Tin Cup Mesa Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate agencies, with one copy returned herewith.

Sincerely,

/s/ Becky J. Hammond

Becky J. Hammond
Chief, Branch of Fluid Minerals

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
UTU-31928

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No. TIN CUP MESA UNIT
2. Name of Operator MAR-REG OIL COMPANY		8. Well Name and No. TIN CUP MESA 3-26
3a. Address PO BOX 18148, RENO, NV 89511	3b. Phone No. (include area code) 775-852-7444	9. API Well No. 43-037-30762
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NWNE SEC 26, T38S, R25E, SLB		10. Field and Pool or Exploratory Area TIN CUP MESA
		11. County or Parish, State SAN JUAN, UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Requesting Temporarily Abandon status to evaluate this well on the potential for re-entry with horizontal drilling in both the Upper Ismay and Desert Creek. We have recently drill horizontally and are planning to do the same on other wells to completely drain both reservoirs.

COPY SENT TO OPERATOR

Date: 10/16/2012

Initials: KS

REQUEST DENIED
Utah Division of
Oil, Gas and Mining

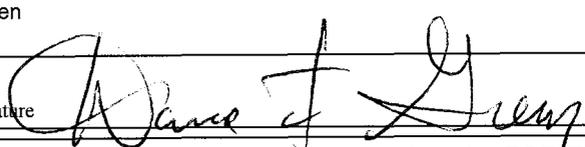
Date: 10/2/2012
By: D. J. K. R. J.

X Requirements of 2649-3-36 have not been met. **AUG 21 2012**

Federal Approval Of This
Action Is Necessary

RECEIVED

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Dan Green	Title Petroleum Engineer
Signature 	Date 08/16/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.