Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Tin Cup Mesa

9. WELL NO.: 1-25

10. FIELD AND POOL, OR WILDCAT: Wildcat

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

1a. TYPE OF WORK: DRILL ☐ DEEPEN ☐ PLUG BACK ☐

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

2. NAME OF OPERATOR: Marathon Oil Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1950' FNL & 790' FWL SWNW
At proposed prod. zone:

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

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 6½ miles northeast of Hatah Trading Post, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 790'

16. NO. OF ACRES IN LEASE: 760'

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

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: None

19. PROPOSED DEPTH: 5840' akah

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4985' GL

22. APPROX. DATE WORK WILL START*: 1st Half of 1981

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 Program for complete Casing & Cementing Program				

Please see the following attachments:

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

RECEIVED
MAY 20 1981
DIVISION OF
OIL, GAS & MINING

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

24.
SIGNED: Dale Cooley
TITLE: District Operations Manager
DATE: 2-3-81

(This space for Federal or State office use)

PERMIT NO.
APPROVAL DATE
APPROVED BY: Howard A. Lemm
TITLE: Acting District Supervisor
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 6-26-81
BY:

OPERATOR'S COPY

*See Instructions On Reverse Side

STIPULATIONS ATTACHED

APPROVED FOR A PERIOD NOT TO EXCEED 1 YEAR.

APPROVAL PRECEDES ALL OTHER LEASE ACTIVITY WHILE OPERATING ON FEDERAL LANDS.

COMPANY MARATHON OIL COMPANY

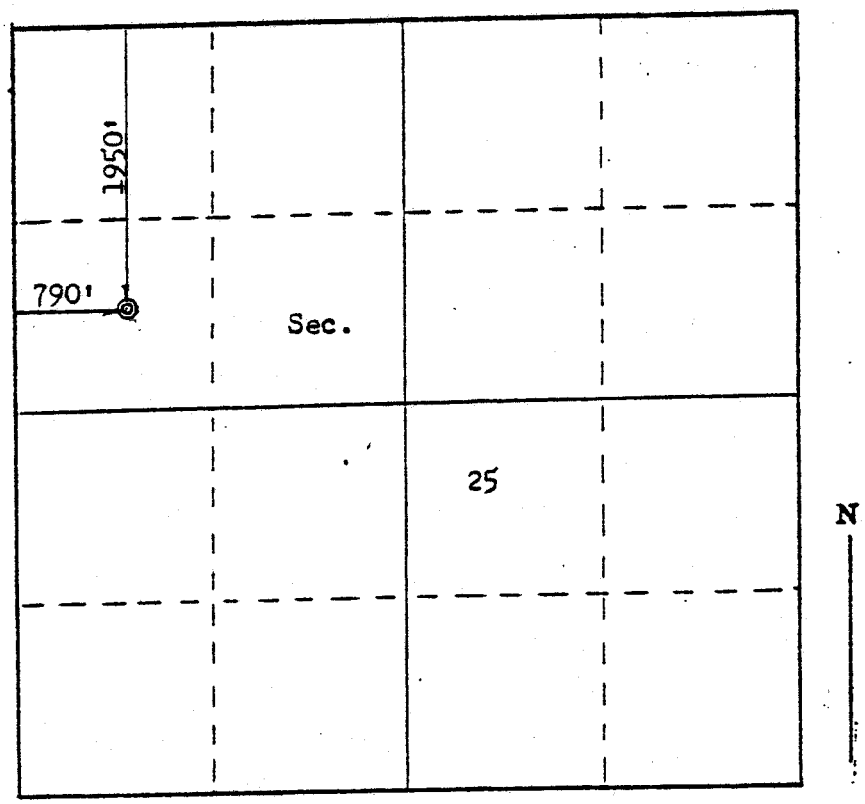
LEASE TIN CUP MESA WELL NO. 1-25

SEC. 25, T. 38S, R. 25E

SAN JUAN COUNTY, UTAH

LOCATION 1950'FNL 790'FWL

ELEVATION 4985 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.

Fred B. Kerr Jr.

SEAL: Registered Land Surveyor.

#3950

SURVEYED November 10, 19 80

FARMINGTON, N. M.

MARATHON OIL COMPANY

DRILLING OPERATIONS PLAN

DATE: January 28, 1981

WELL NAME: Tin Cup Mesa #1-25

LOCATION: 790' FWL & 1950' FNL, Sec. 25, T38S, R25E, San Juan Co., Utah

1. Geologic name of the surface formation:
   Jurassic Morrison Formation - Brushy Basin Shale Member

2. Estimated tops of important geological markers:

Formation	Depth	Datum	Formation	Depth	Datum
Carmel	779'	(+ 4,216')	Paradox	5,241'	(- 246')
Nauajo	805'	(+ 4,190')	Upper Ismay	5,398'	(- 403')
Kayenta	1,024'	(+ 3,971')	Hovenweep Shale	5,559'	(- 564')
Wingate	1,199'	(+ 3,796')	Lower Ismay	5,591'	(- 596')
Chinle	1,549'	(+ 3,446')	Gothic Shale	5,641'	(- 646')
Shinarump	2,353'	(+ 2,642')	Desert Creek	5,655'	(- 660')
Cutler	2,459'	(+ 2,536')	Chimney Rock Shale	5,743'	(- 748')
Honaker Trail	4,273'	(+ 722')	Akah	5,764'	(- 769')
			T.D.	5,840'	(- 845')

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

Formation	Depth	Possible Content
Carmel	779'	Water
Navajo	805'	Water
Wingate	1,199'	Water
Dechelly	*	Brine
Paradox	5,241'	Brine
Upper Ismay	5,398'	Oil - Primary Objective
Lower Ismay	5,591'	Oil - Secondary Objective
Desert Creek	5,655'	Oil - Secondary Objective

4. The Proposed Casing Program:

Casing Design

CASING STRING	HOLE SIZE	INTERVAL	SECTION LENGTH	SIZE (OD)	WEIGHT, GRADE AND JOINT	NEW OR USED	MUD WEIGHT	1,000# TENSION LOAD	SF_t	SF_c	SF_b
Conductor	20"	0'-60'	60'	16"	Thinwall Steel	New	NA	NA	NA	NA	NA
Surface	12-¼"	0'-1,550'	1,550'	9-5/8"	36#, K55 STC	New	8.6	55.8	7.58	2.73	5.25
Production	8-3/4"	0'-1,050'	1,050'	7"	26#, K55 STC	New	13.0	143	2.54	5.04	1.35
	8-3/4"	1,050'-3,900'	2,850'	7"	23#, K55 STC	New	13.0	116	2.66	1.14	1.26
	8-3/4"	3,900'-5,840'	1,940'	7"	26#, K55 STC	New	13.0	50	7.22	1.09	1.75

Cement Program: 9-5/8" Casing

Cement Volume: 1,550' x .3132 cu.ft./ft. x 2.0 excess = 970 cu. ft.
Lead Slurry: 1,000' calculated plus 100% excess - 340 sacks of high yield cement (BJ Lite, Halliburton Lite, etc.) containing 1/4 lb/SK cellophane flakes and 2% $CaCL_2$.
Slurry Yield: 1.84 cu.ft./SK
Slurry Density: 12.7 lb./gal
Water Requirement: 9.9 gal./SK

Tail Slurry: 550 ft. calculated plus 100% excess - 300 sacks of class "B" cement containing 1/4 lb./SK cellophane flakes and 2% $CaCL_2$.
Slurry Yield: 1.18 cu. ft./SK
Slurry Density: 15.6 lb./gal
Water Requirement: 5.2 gal./SK

Casing Equipment: Guide shoe, differential fill collar, 3 centralizers. WOC time will be a minimum of 6 hours. If float equipment holds, closed-in pressure after completion of cement job is not recommended.

Cement Program: (Cont.)

7" Casing

1st Stage

Cement Volume: 2,840 ft. x .1503 cu. ft./ft. x 1.20 excess = 512 cu. ft.
Slurry: 2,840 ft. calculated plus 20% excess from logs - 434 sacks of Class "B" cement containing 0.8% fluid loss additive (D-19, Halacl 9, etc.)

2nd Stage

Cement Volume: 2,000 ft. x .1503 cu. ft./ft. x 1.2 excess = 360 cu. ft.
Slurry: 2,000' calculated (500' into 9-5/8" casing) plus 2.0% excess from logs - 235 sacks of high yield cement (BJ Lite, Halliburton Lite, etc.)

Casing Equipment: Locate stage collar 3,000'. A guide shoe, flapper type float collar, 1 cement basket, and 10 centralizers spaced over the bottom 800 ft. 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 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 SRDA). 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 min. and 1,000 psi for 5 minutes prior to drilling out from under 9-5/8" surface casing. After drilling casing shoe and 5 ft. of additional hole, a shoe test will be performed to 13.5 ppg equivalent mud weight or leakoff, whichever occurs first. The accumulator should be of a 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.

6. Drilling Mud Program:

From	To	Type Mud	Weight	% Oil	Water Loss
0'	1550'	Spud	8.5- 9.0	0	No Control
1550'	Cutler (2500')	gel/water	8.5- 9.0	0	No Control
Cutler (2500')	Upper Ismay (5400')	gel/chemical	9.4-10.3	0	10.0-12.0cc
Upper Ismay (5400')	T.D.	gel/chemical	as required	0	8.0- 9.0cc

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 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 interval will be used.

The mud system will include a desander/desilter, gas buster or degasser. A manual choke will be used.

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

A single shot drift indicator will be used.

Flow sensors and pit level monitors will be installed in the mud system.

Deviation Control:

From	To	Maximum Distance Between Surveys	Maximum Deviation From Vertical	Maximum Change Per 100' of Depth
0'	1,550'	250'	1°	1°
1,550'	T.D.	500'	5°	1°

Slight deviation problems in general area.

8. Testing, Logging, Coring and Fracing Program:

Samples: 10 ft. interval from 1,550' to T.D.
Logging:
1. DI - SFL/GR - Surface to T.D.
2. RHC SONIC/GR - Surface to T.D.
3. FDC/CNL-GR From 4,000' to T.D.

Testing:
1. Upper Ismay
2. Lower Ismay
3. Desert Creek

Coring: Approximately 350 foot core to include Upper Ismay, Lower Ismay and Desert Creek

Fracing Program:

The productive intervals will be stimulated by acidizing with 2,000 gallons 28% HCl acid and if necessary will be acid fractured with 1,500 gallons 28% HCl acid.

9. Anticipated abnormal pressures or temperatures:

The Dechelly Mbr. of the Cutler FM., if penetrated, may contain overpressured saltwater requiring 11.0 - 12.3 ppg mud weight to control.

Maximum anticipated bottom hole pressure is approximately 2,500'.
Maximum anticipated bottom hole temperature is approximately 175°F.

10. The anticipated starting date and duration of operation:

Starting Date: 1st half 1981

Duration: 30 days

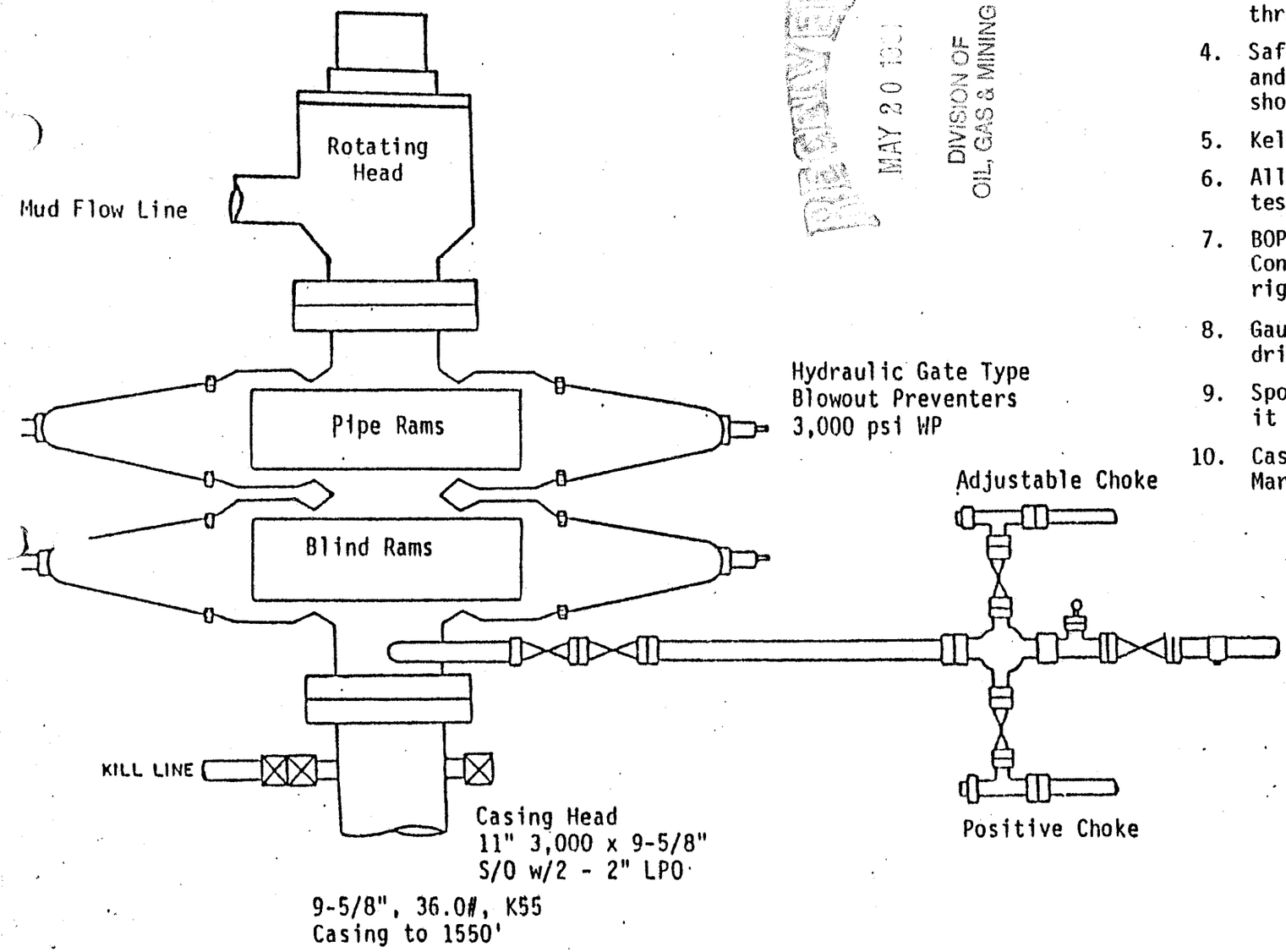
Name Mike E. Knight (for Dist. Drlg. Engineer)

Title Drilling Superintendent (Dist. Drlg. Engineer)

Date 1/27/81

Tin Cup Mesa #1-25
790' FWL, 1,950' FNL
Section 25, T38S, R25E
San Juan County, Utah

RECEIVED
MAY 30 1980
DIVISION OF
OIL, GAS & MINING



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: February 3, 1981

WELL NAME: Tin Cup Mesa #1-25

LOCATION: 1,950' FNL & 790' FWL, Section 25, 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.

6-1/2 miles northeast of Hatch Trading Post, Utah.
See map 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.

Blade and gravel where needed.

#2 Planned Access Roads:

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

(1)	Width	16'
(2)	Maximum grades	0 - 9%
(3)	Turnouts	None required
(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 anticipated

(6) Surfacing material

Gravel

(7) Necessary gates, cattleguards, or fence cuts.

No cattle guards or fence cuts will be required.

(8) (New or reconstructed roads are to be center-line flagged at time of location staking).

All new access road is centerlined flagged with Hot Blue and Hot Orange flagging material. The access was walked 50' on each side by Archeologist from the University of Utah. See map diagram "A" Color coded green.

#3 Location of Existing Wells:

Two-mile radius map if exploratory, or 1-mile radius map if development well, showing and identifying existing:

(1)	Water wells	None
(2)	Abandoned wells	None
(3)	Temporary abandoned wells	None
(4)	Disposal wells	None
(5)	Drilling wells	MCOR #1-25
(6)	Producing wells	None
(7)	Shut-in wells	None
(8)	Injection wells	None
(9)	Monitoring or observation wells for other resources.	None

#4 Location of Existing and/or Proposed Facilities:

A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

(1)	Tank Batteries	None
(2)	Production Facilities	None
(3)	Gathering Lines	None
(4)	Gas Gathering Lines	None
(5)	Injection Lines (Indicate if any of the above lines are buried).	None
(6)	Disposal Lines	None

B. If new facilities are contemplated, in the event of production, show:

(1) Proposed location and attendant lines by flagging if off of well pad.
Adjacent to the access road and as close to the proposed drill site as possible, without setting on any fill.
See diagram "B".

(2) Dimensions of Facilities

See Diagram "B".

(3) Construction methods and materials:
Good engineering practices will be used in the construction of these facilities and materials will be obtained through local vendors and contractors.

B. If new facilities are contemplated, in the event of production, show: (cont'd)

(4) Protective measures and devices to protect livestock and wildlife.

Woven wire fences of the pit areas and flagging, if necessary.

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

Restoration of the drill site and tank battery areas will be reshaped to conform with the topography. The top soil will be redistributed at the proper time. The sites will be reseeded as per the recommended seed mixture.

#5 Location and Type of Water Supply:

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

A water hole will be made on the down stream side of Cross Creek. Approval was given by Jennifer Head, BLM, Monticello, Utah, to Walt West, MOC. See map Diagram "A", color coded blue.

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 location. See map Diagram "A", color coded blue.

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 supply well will be drilled.

#6 Source of Construction Materials:

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

Construction materials will be native soil or purchased from a Jobber and hauled to the well site by same.

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 purchased from a Jobber and hauled to the well site.

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

#10 Plans for Restoration of Surface: (cont'd)

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

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

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

If there is 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.
Topo is sagebrush, scrub cedars, covered hills, occasionally dissected by drainage features.
Flora is sagebrush, wheat grass and short stubby native grasses.
Fauna is deer, rabbits, fox, small rodents, cattle and sheep.

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

The drill site and access road is owned by U. S. Government.
Attached are: Affidavit, Designation of Agent, Letter from MCOR.

(3) Proximity of water, occupied dwellings, archeological, historical or cultural sites. There is a recent (30-40 yrs) Hogan Type Sheepmans shelter in ruins, 152' NW of the center stake. It was decided by Dr. Larval Casjens, Archeologist, Univeristy of Utah, and Walt West of MOC, not to disturb. There is no water or occupied dwellings in the area. Archeological Clearance for the drill site and access road was given.

#12 Lessee's or Operator's Representative:

Mike E. Krugh
Marathon Oil Company
P.O. Box 2659
Casper, WY 82602
(307) 235-2511 Office (307) 577-1664 Home

#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.

2-2-81 Michael E. Krugh
Date Name

Drilling Superintendent
Title

#7 Methods of Handling Waste Disposal: (cont'd)

(4) Sewage Porta Pot

(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 on the drill site, and it will be fenced.

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

At the completion of drilling, the site and surrounding area will be cleaned up and all burnable material will be put in the burn pit and burned. All foreign material will be buried.

#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 planned.

#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.

The reserve pit will not be lined and will be in the cut. See Diagram "C".

#10 Plans for Restoration of Surface:

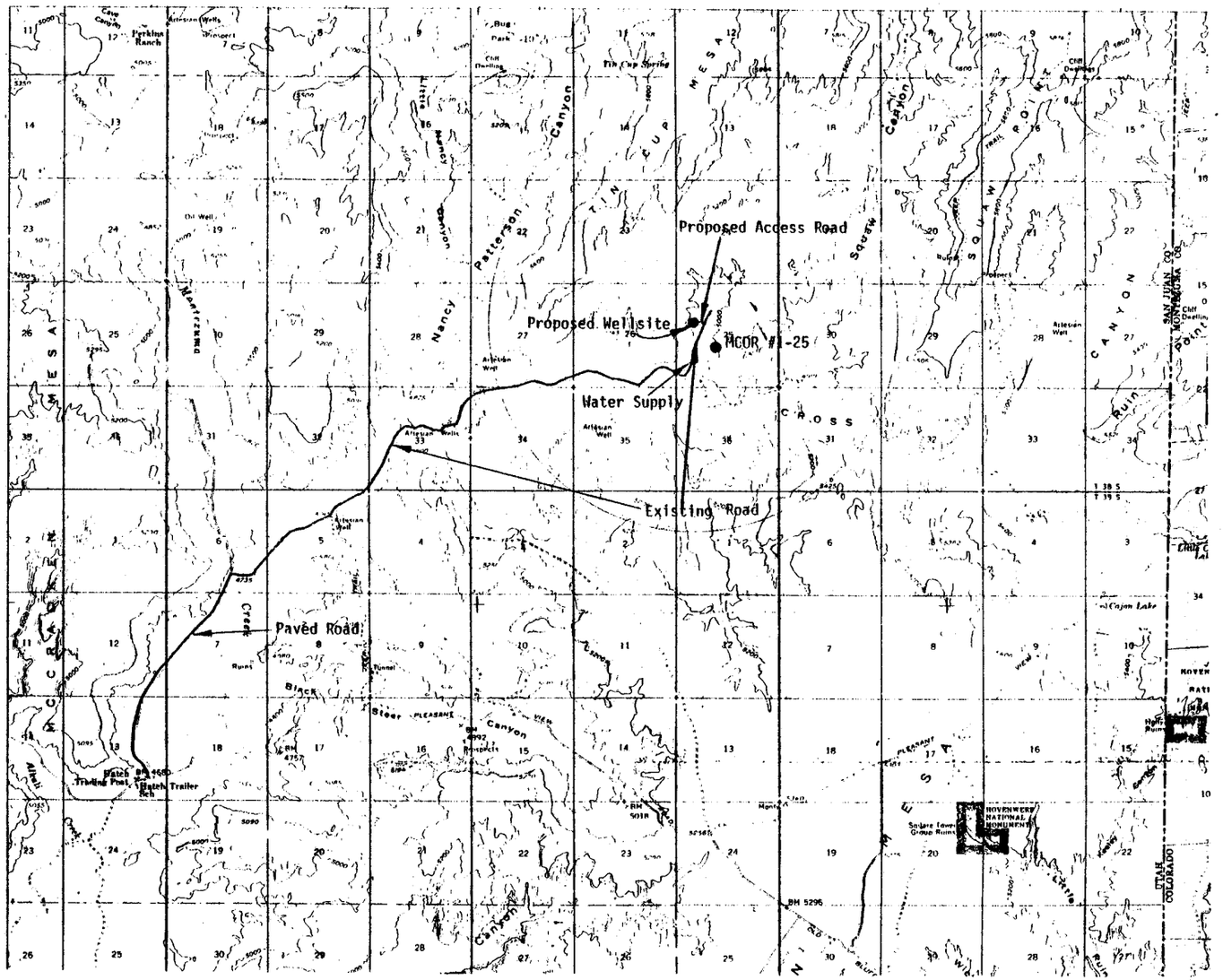
State restoration program upon completion of operations, including:

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

The drill site will be cleaned and waste material will be put in the trash burn pit, which will be covered at the finish of the drilling operation. The reserve pit will be backfilled as soon as it is dry.

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

The top soil will be redistributed and at the proper season the seed mixture of BLM requirements will be drilled planted.



VICINITY MAP FOR

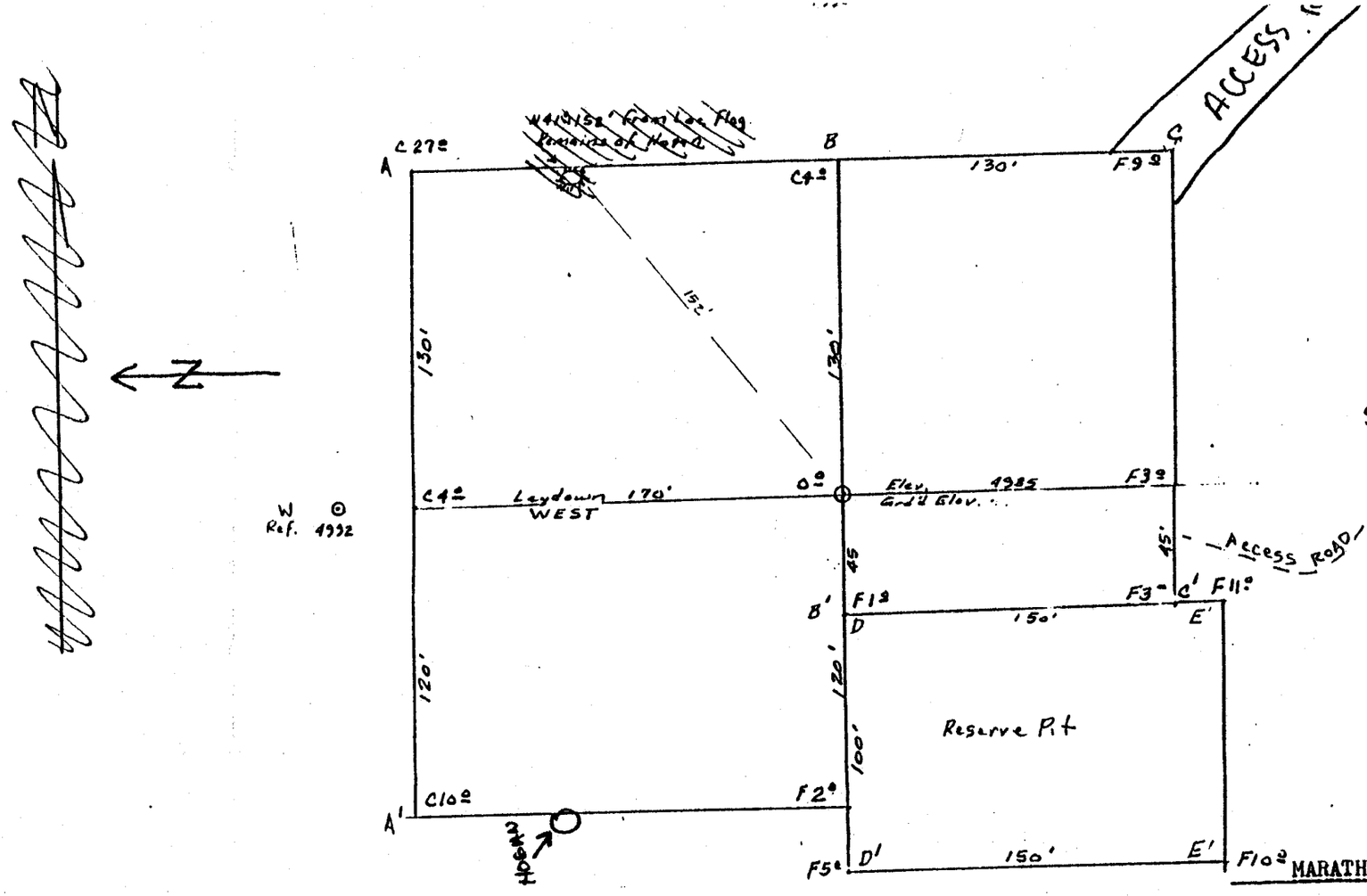
MARATHON OIL COMPANY #1-25 TIN CUP MESA

1950 FNL 790 FWL Sec. 25 T38S-R25E

SAN JUAN COUNTY, UTAH

Diagram A

DIAGRAM C



Scale: 1" = 60'

KERR LAND SURVEYING

Fred Kerr

Nov 10, 1980
Date

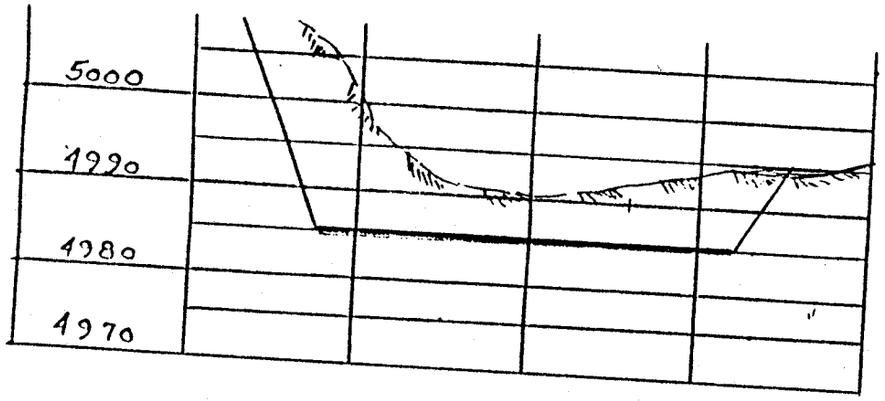
MARATHON OIL COMPANY #1-25NTIN CUP MESA
Company & Well Name

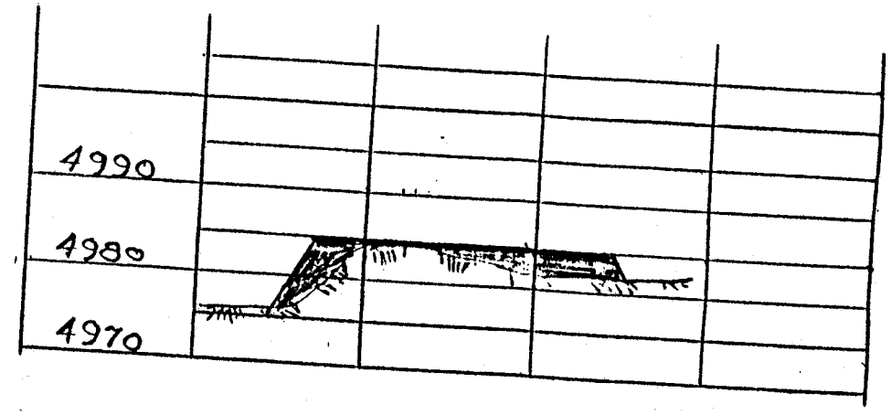
1950'FNL 790'FWL Sec. 25-T38S-R25E
LOCATION

SAN JUAN COUNTY, UTAH
County and State

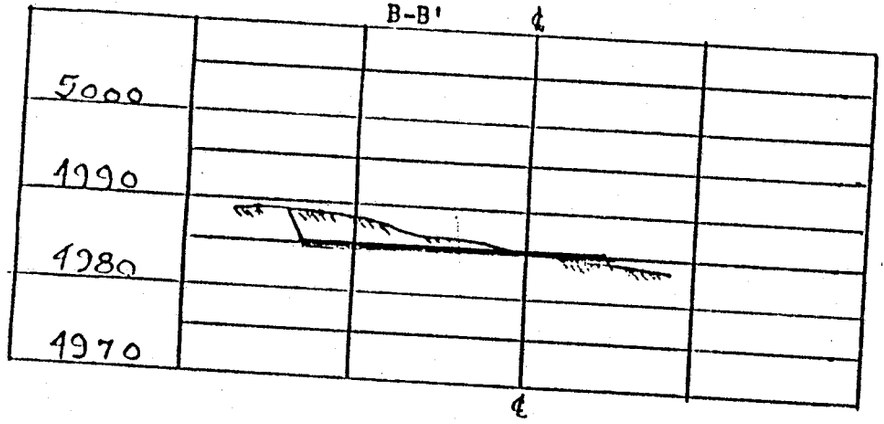
A-A' Vertical: 1"=20' Horiz. 1"=100'

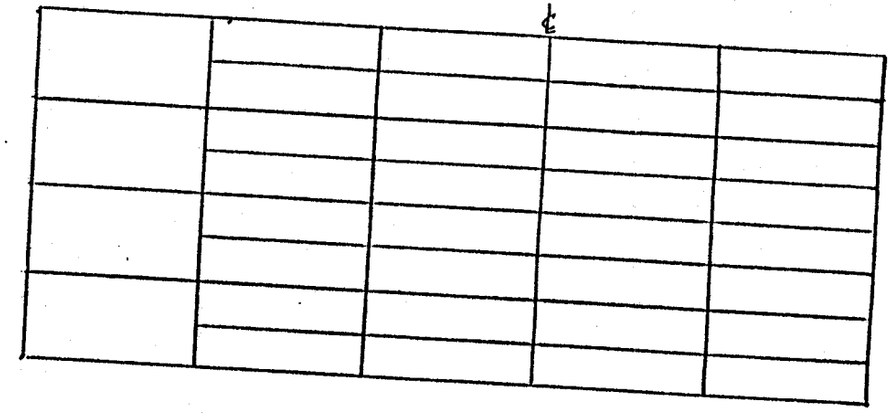
C-C' Vertical: 1"=20' Horiz. 1"=100'



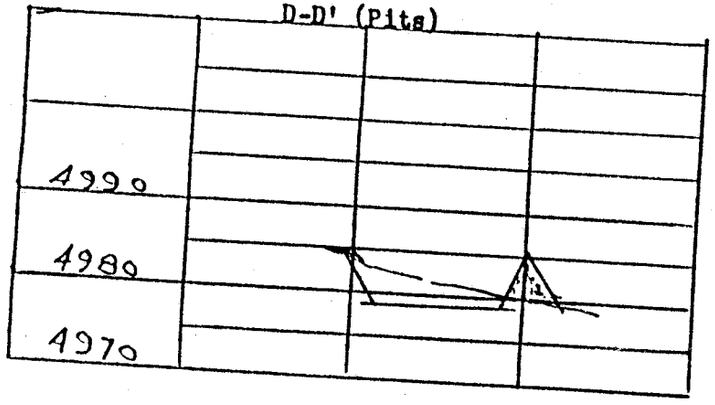


B-B'

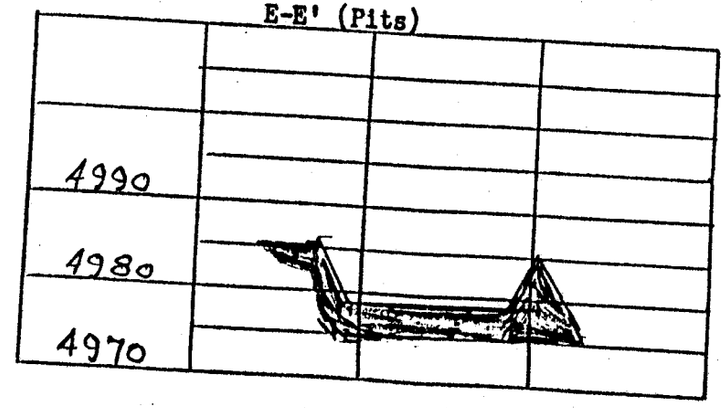


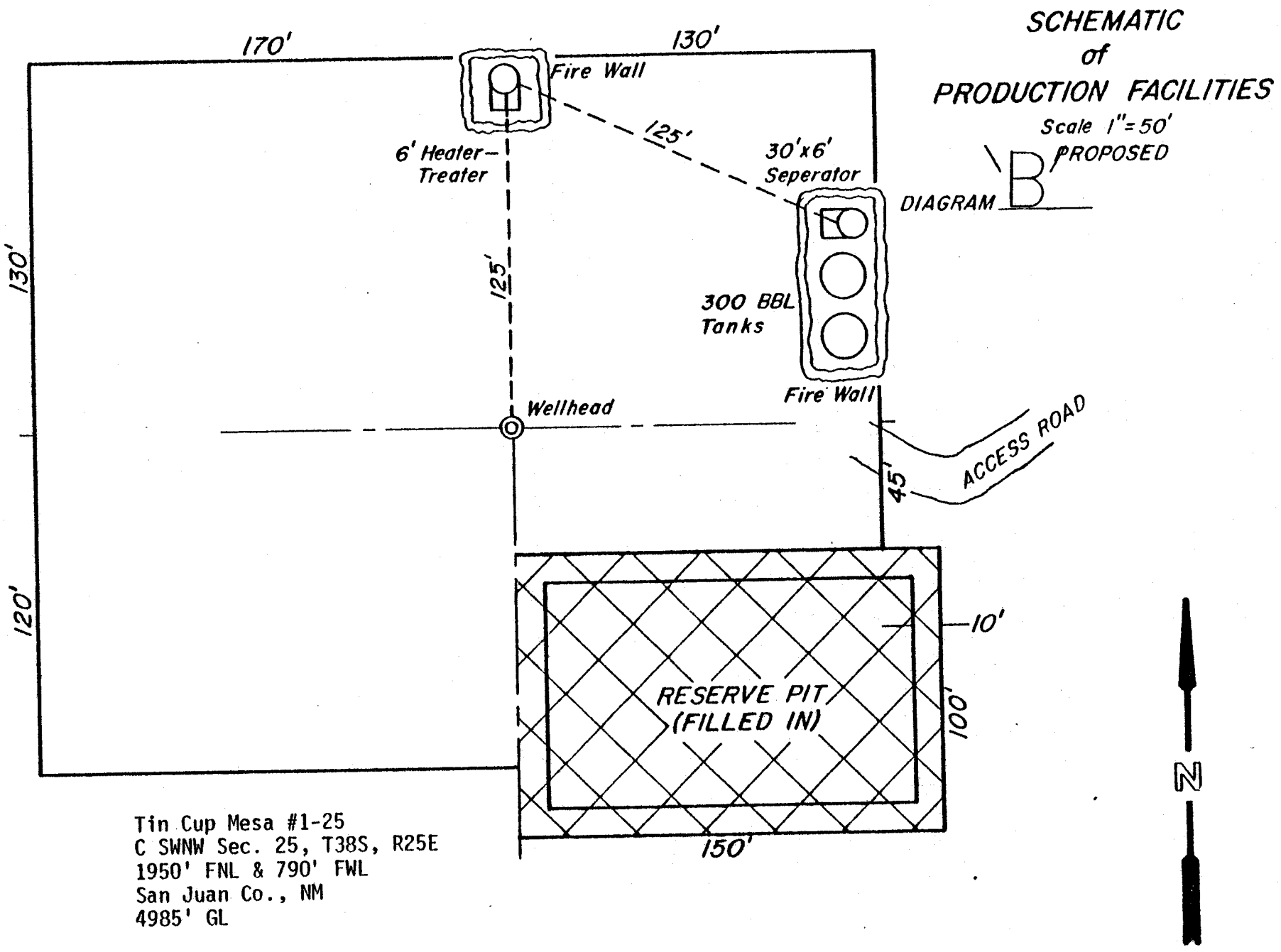


D-D' (Pits)

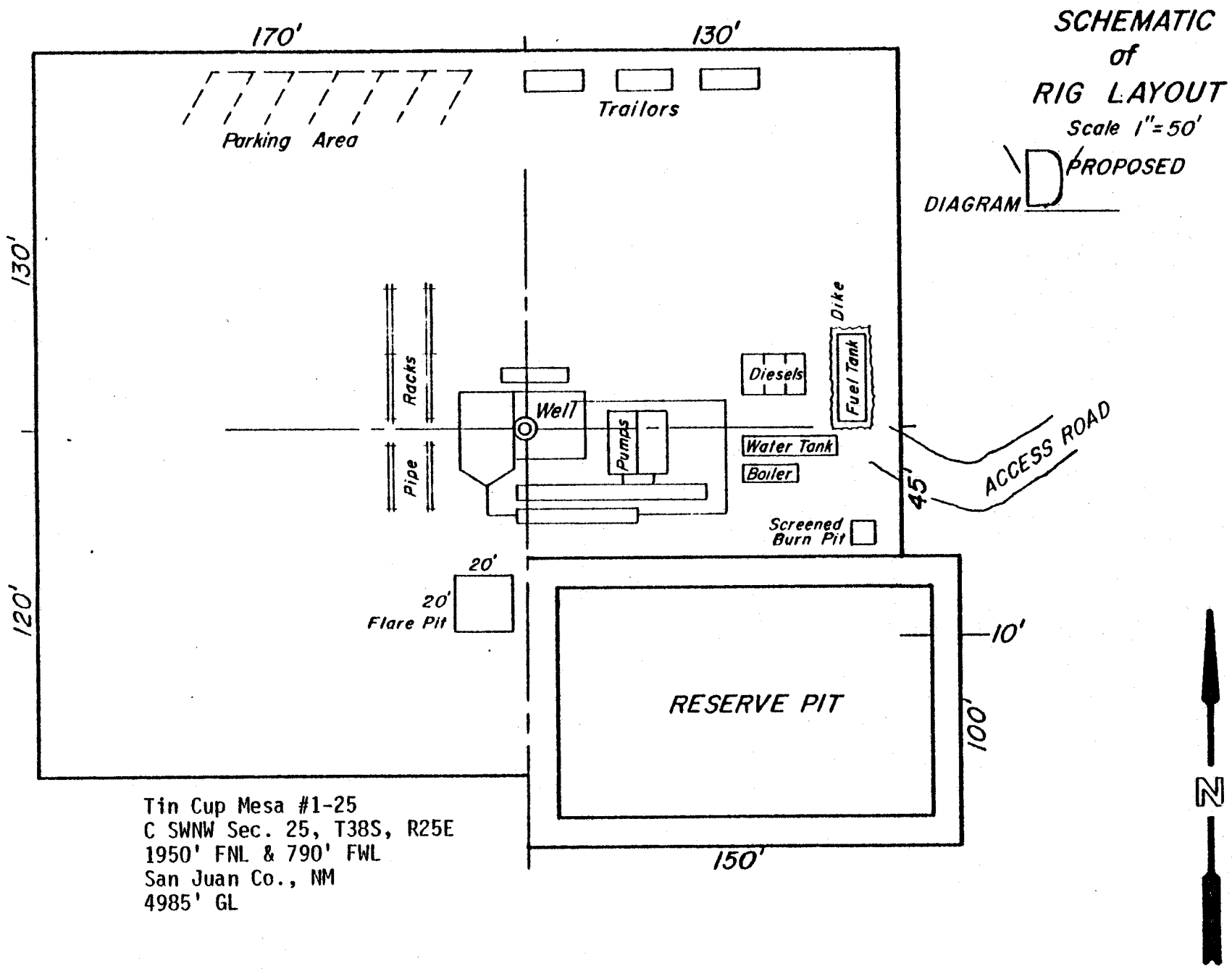


E-E' (Pits)

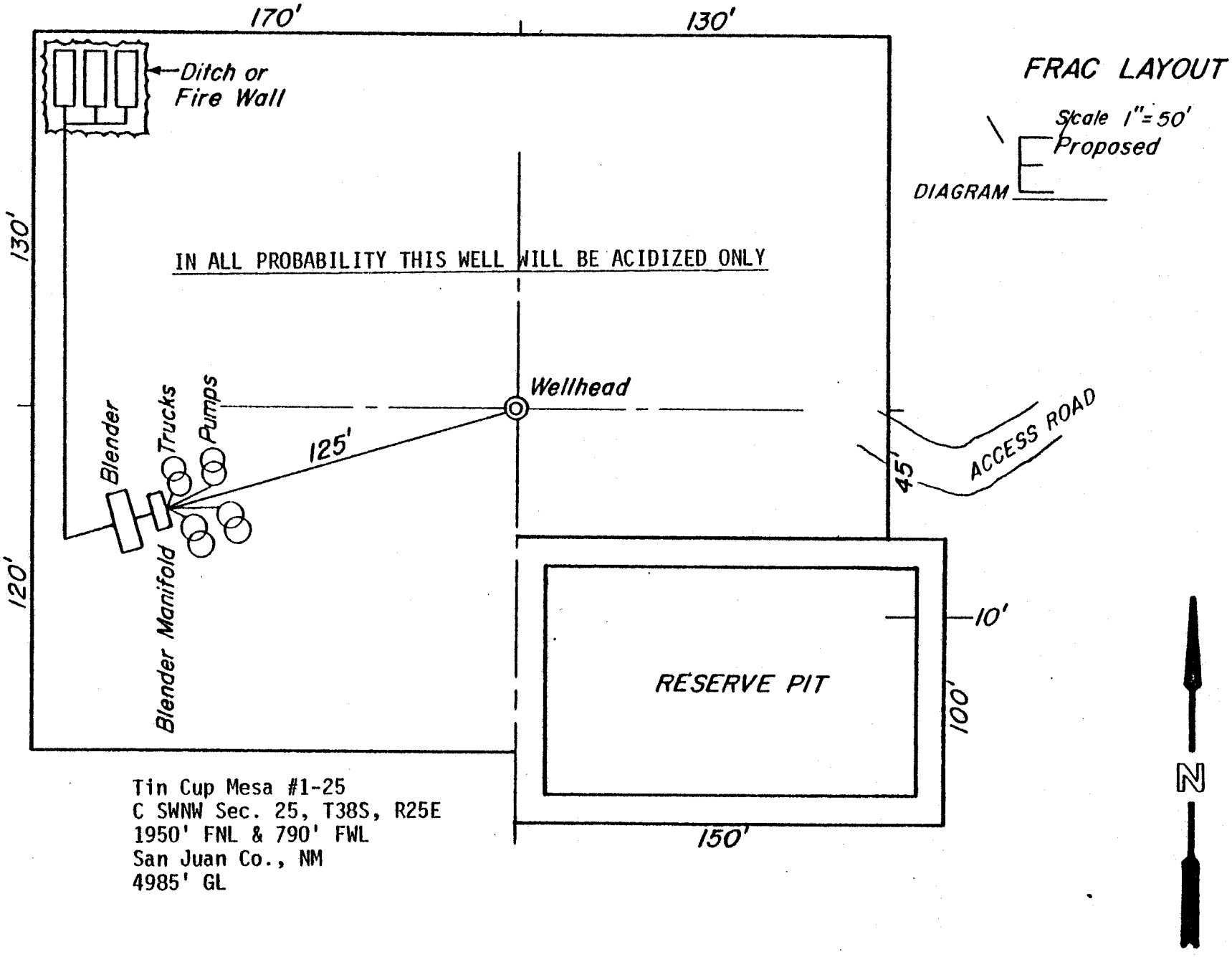




Tin Cup Mesa #1-25
C SWNW Sec. 25, T38S, R25E
1950' FNL & 790' FWL
San Juan Co., NM
4985' GL



Tin Cup Mesa #1-25
C SWNW Sec. 25, T38S, R25E
1950' FNL & 790' FWL
San Juan Co., NM
4985' GL



Tin Cup Mesa #1-25
C SWNW Sec. 25, T38S, R25E
1950' FNL & 790' FWL
San Juan Co., NM
4985' GL

DESIGNATION OF AGENT

Supervisor, Oil and Gas Operations:

The undersigned is, on the records of the Geological Survey, Unit Operator under the Canyon Junction unit agreement, San Juan County, Utah (state), No. _____ approved _____ and hereby designates:

NAME: Marathon Oil Company

ADDRESS: Box 120, Casper, Wyoming 82602

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing, and completing unit well No. _____, in the SW ¼ NW ¼ Sec. 25, T. 38S, R. 25E, _____, San Juan County, Utah.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the unit agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not constitute an assignment of any interest under the unit agreement or any lease committed thereto.

In case of default on the part of the designated agent, the Unit Operator will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The Unit Operator agrees promptly to notify the oil and gas supervisor of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above-specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the U. S. Geological Survey a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative actions requiring specific authorization of the Unit Operator.

MCOR Oil and Gas Corporation
Unit Operator

By: W. James Saul
W. James Saul, Vice President

12-4-80

AFFIDAVIT

STATE OF WYOMING)
) SS.
COUNTY OF MATRONA)

The undersigned, being first duly sworn on oath, deposes and says:

1. That affiant is over 21 years of age and in all respects legally competent to make this affidavit.

2. That affiant on the 22nd day of January, 1981, personally examined the following described lands in San Juan County, State of Utah, to-wit:

Township 38 South, Range 25 East, S. L. M.

Section 23: W½, W½SE¼
Section 25: SW¼NW¼
Section 26: E½

(Containing 760.00 acres, more or less.)

3. That affiant on said day made a reasonable effort, in connection with such examination, to ascertain whether any person or persons were in actual possession of or engaged in the working of the lands above described; that no person or persons were found to be in actual possession or engaged in the working of said lands or any part thereof; that, as a result of such examination, no evidence was found of any location monuments that could have been used in locating placer or lode mining claims; that no evidence was found of any mines or mining operations, open pits, diggings, shafts, holes or other evidence of mining claims, and no indications of the performance of assessment work on said lands; that no drilling well or wells for the purpose of producing any mineral was found on said land; and that affiant found no buildings on said lands, or structures, telephone lines, electric lines, pipe lines, railroads, or other improvements thereon, except the following:

Marathon Tin Cup Mesa well #1-25 is located 1950' from the north line and 790' from the west line of Section 25, T.38S., R.25E., S. L. M., San Juan County, Utah. The proposed well site can be reached by traveling from Hatch's Trading Post northeast on paved road for approximately two miles, thence on a gravel/dirt road through two wash crossings and two cattle guards in a northeasterly direction for approximately six miles to the west line of Section 25, thence turning a left or in a northerly direction continuing for approximately one-half mile to the well location.

The overall terrain is a mixture of high cliffs and rolling grassy canyons. There are numerous seismographic trails throughout the area. The hilly areas are covered with prairie grass, sagebrush and buck brush. There are several artesian wells in the area, some of which drain into shallow washes only a few inches deep. The SW corner survey marker of Section 26 was located, along with the marker common to Sections 26 and 35 mid point. A rock marker was found and is believed to be the SE corner survey marker of Section 25.

A well being drilled by MCOR Oil & Gas Corporation was located in the NE¼SW¼ of Section 25. A fence was found running on the west lines of Sections 26 and 23. There are no other fences, utility lines or improvements of any kind in the area. The survey markers were clearly marked with flags for purposes of locating the well site. No mining activity was apparent in this area. If any exists, they must be hidden or out of the area.

Steve Degenfelder
STEVE DEGENFELDER

~~Subscribed~~ and sworn to before me on this 26th day of Jan., 1981.

Constance T. Stark - Notary Public
County of Natrona
Wyoming

My Commission Expires: March 7, 1984

Constance T. Stark

MCOR Oil and Gas Corporation
Equitable Building, Suite 410, 730 17th Street, Denver, Colorado 80202 / Telephone (303) 893-5111

RECEIVED
MARATHON OIL CO.
JAN 22 1981
Casper District Land Dept.
Casper, Wyoming

January 19, 1981

Mr. James Youngflesh
Marathon Oil Compan-
P.O. Box 120
Casper, Wyoming 82602

Dear Jim:

Further to our recent telephone conversation this is to advise that we are at present using Hay Hot Oil owned by a Mr. Wright for our water on our #1-25 well in San Juan County, Utah. Mr. Wright is obtaining the water from the Cross Creek.

Also, your Right-of-Way request has been forwarded by this office to Wexpro in Salt Lake City, Utah. You should shortly be receiving this directly from them. Allow about another week and if you have not received the same from Wexpro, please advise.

Very truly yours,

MCOR Oil and Gas Corporation

Raymond S. Blunk
District Landman

RSB:dm

STIPULATIONS

Well sign should read:

Marathon Oil Company
U-31928
No. 1-28 Tin Cup Mesa
SWNW 25-38S-25E
San Juan County, Utah

This location may be potentially valuable for underground mining.

Please furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920 to:

U. S. Geological Survey
Mining Branch
2040 Administrative Bldg.
1745 W. 1700 South
Salt Lake City UT 84104

STIPULATIONS

Well sign should read:

Marathon Oil Company
U-31928
No. 1-25 Tin Cup Mesa
SWNW 25-38S-25E
San Juan County, Utah

***NOTE: Items crossed out either do not apply or are already covered in the operator's SUP.

Construction:

1. The operator or his contractor will contact the San Juan Resource Area Office in Monticello, Utah (phone (801) 587-2201) 48 hours prior to beginning any work on public land.

2. The archaeological site (Navajo hogan) on the west edge of the location will be fenced and avoided during construction, rehabilitation and production operations. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. 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.

3. Existing access will be used per our pre-drill discussion. Improvements to the seismic trail will be limited to a total disturbed width of 18 feet including slope cuts, waterbars, drainage ditches and running surface. The location of new construction will follow the seismic trail. Sandy areas along the access road will be stabilized with water.

   Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed must be approved in advance.

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

4. The location will be laid out and constructed as discussed during the pre-drill conference and as indicated on the attached sheet.

5. Trees and brush removed from the location will be stockpiled on the north edge of the pad.

6. The top six to eight inches of soil material will be removed from the location and stockpiled separate from the trees on the west edge of the drill pad for use during reclamation. Topsoil along the access will be reserved in place.

7. A trash pit will be constructed near the mud tanks with steep sides and dug at least six to eight feet into solid undisturbed material. Trash will not be disposed of in the reserve pit. The trash pit will be totally enclosed with a fine mesh wire <u>before</u> the rig moves onto the location.

8. An inspection of the reserve pit will be made by USGS and/or BLM after the pit is constructed to determine if lining will be necessary.

9. The reserve pit fence will be kept in good repair while the pit is drying.

10. A burning permit will be required before burning trash between May 1 and October 31. This can be acquired by contacting the State Fire Warden, John Baker at (801) 587-2201.

11. The dirt contractor will be furnished with a copy of these stipulations and a copy of the operator's Surface Use Plan prior to any work.

<u>Rehabilitation</u>

1. Immediately on completion of drilling, the location and surrounding are will be cleared of all debris resulting form the operation. All foreign material will be disposed of in the trash pit.

2. The operator or his contractor will contact the San Juan Resource Area BLM Office in Monticello, Utah (phone (801) 587-2201) 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.

3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash it contains must be removed to the trash pit. The trash pit will not be filled in until recontouring work begins and will remain fenced until that time.

4. All distrubed areas will be recontoured to blend with the natural topography as discussed during the pre-drill conference.

5. The stockpiled topsoil will be evenly distributed over the disturbed area.

6. All disturbed areas will be scarified with the contour to a depth of four to six inches.

7. Seed will be drilled during the fall months with the following seed prescription.

   3 lbs/acre Indian ricegrass (Oryzopis hymenoides)
   2 lbs/acre Fourwing saltbush (Atriplex canescens)
   1 lbs/acre Cliffrose (Cowania mexicana)
   2 lbs/acre Alkalai sacaton (Sporobolus airoides

8. After seeding is complete the stockpiled trees will be scattered evenly over the disturbed areas and walked down with a dozer. The access will be blocked to prevent future use.

9. Water bars will be constructed as directed by BLM to control erosion.

10. The dirt contractor will be furnished with a copy of these stipulations and a copy of the operator's Surface Use Plan prior to any work.

Production

1. The operator will notify the San Juan Resource Area BLM Office in Monticello, Utah (phone (801) 587-2201) if the well is determined to be a commercial producer.

2. The reserve pit and that portion of the location and access road not needed for production or production facilities shall be reclaimed in the methods described in the rehabilitation section. Enough topsoil should be retained to reclaim the remainder of the location as a future date. The remaining stockpile of topsoil shall be seeded in place using the prescribed seeding mixture.

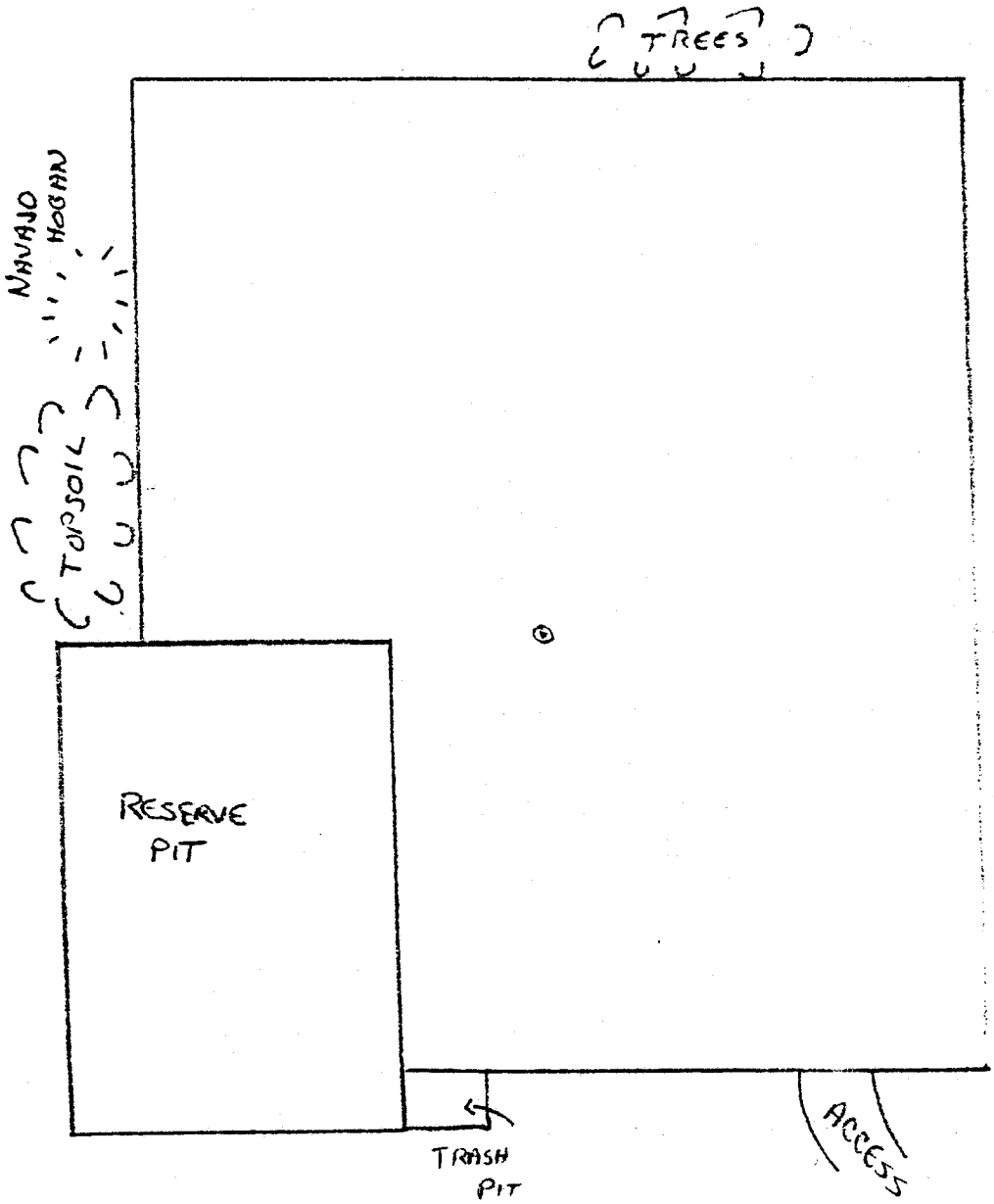
3. All above-ground production facilities will be painted a neutral color to be approved by the BLM.

4. The dirt contractor will be furnished with a copy of these stipulations and a copy of the operator's Surface Use Plan prior to any work.

5. The access shall be upgraded to the following specifications:

   To be determined if production is obtained.

MARATHON
TIN CUP MESA 1-25



** FILE NOTATIONS **

DATE: June 12, 1981

OPERATOR: Marathon Oil Co.

WELL NO: Lincup Mesa #1-25

Location: Sec. 25 T. 38 S R. 25 E County: San Juan

File Prepared: ✓ Entered on N.I.D: ✓

Card Indexed: ☐ Completion Sheet: ✓

API Number 43-037-30690

CHECKED BY:

Petroleum Engineer: M.J. Minder 6-26-81

Director:

Administrative Aide: ok as per Rule C-3, ok on boundaries, ok on any other drilling units

APPROVAL LETTER:

Bond Required: ✓ Survey Plat Required: ☐

Order No. O.K. Rule C-3 ☐

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

Lease Designation Fed. Plotted on Map ☐

Approval Letter Written ☐

Hot Line ☐ P.I. ☐

June 29, 1981

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

RE: Well No. Tin Cup Mesa #1-25
Sec. 25, T. 38S, R. 25E,
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil is hereby granted in accordance with Rule C-3, General Rules and Regualtions 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 immediately notify the following:

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

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) 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 43-037-30690.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Michael T. Minder
Petroleum Engineer

MTM/db
CC: USGS

p D 3

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Marathon Oil Company

WELL NAME: Tin Cup Mesa #1-25

SECTION SW NE 25 TOWNSHIP 38S RANGE 25E COUNTY San Juan

DRILLING CONTRACTOR Energy Search

RIG # 1

SPUDDED: DATE 7-18-81

TIME 3:30 a.m.

HOW rotary

DRILLING WILL COMMENCE _____

REPORTED BY Walt West

TELEPHONE # 307-577-1555 #206

DATE 7/81 SIGNED DB

FILE IN TRIPLICATE
FORM OGC-8-X

56 64 03

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

RECEIVED
AUG 12 1981
DIVISION OF
OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Tin Cup Mesa #1-25

Operator Marathon Oil Co. Address 951 Werner Court Casper, Wyo. 82602

Contractor Energy Search #1 Address Box #190 Farmington N.M. 87401

Location ___ ¼ ___ ¼ Sec. 25 T: 38S R. 25E County San Juan

Water Sands

	Depth From	Depth To	Volume Flow Rate or Head	Quality Fresh or Salty
1.	2397	2406	11 GPM	Fresh
2.	2917	2927	21 GPM	Fresh
3.	3200	3230	35 GPM	Salty 36,000 PPM Chloride
4.				
5.				

(Continue of reverse side if necessary)

Formation Tops

Remarks

NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.

(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

PROGRESS REPORT

See Attachments

From: 7-18-81 To: 8-14-81

RECEIVED
AUG 3 1981
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 Michael E. Krugh TITLE Drilling Superintendent DATE 8-19-81

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25 WELL HISTORY

8-9-81 5,482' MADE 100' IN HONAKER TRAIL FORMATION. MW 10.9, VIS 50. CORE #2 F/5,382'-5,423', POH L/D CORE #2, RIH W/CORE BBL & CUT CORE #3 F/5,423'-5,482', CIRC, POH W/CORE #3. CORE #2 DISCIPTION: 485' ANNHYDRITE, 6.5' DOLOMITE, 5' LIMESTONE.

8-10-81 5,518' MADE 36' IN HOVENWEEP SHALE FORMATION. MW 11.7, VIS 46. FIN POH W/CORE #3, L/D CORE, RIH W/CORE BBL, HAD 3" WTR FLOW. RAISE MUD WT TO 11.2# & KILL WTR FLOW, CORED 5,482'-5,518', CIRC & RAISED WT TO 11.7#, POH W/CORE #4, L/D CORE. CORE #3: 59' LIMESTONE & DOLOMITE SCATTERED SHOWS OF OIL & VUGS HAD SCATTERED ODER W/GOOD CUT ON SELECTED SAMPLES. BGG: 2 UNITS GAS KICK @ 5,504' 11 UNITS.

8-11-81 5,536' MADE 18' IN HOVENWEEP SHALE FORMATION. MW 11.4, VIS 48. FIN RIH F/DST #4, PKRS 5,420'-5,414', IF 15 MINS, ISI 30 MINS, FF 2 HRS, FSI 4 HRS. POH W/DST #4, RECOVERED 479' WTR & SLIGHTLY GAS CUT MUD. RIH W/BIT REAM 45' TO BTM. DLRG AHEAD W/NO PROBLEMS. DST #4, BHT 132°, IHP 3,289, IF 53-93 PSI, ISI 1,948, FF 120-320 PSI, FSI 1,921 PSI, FHP 3,263 PSI. MAX FLOW 10" WTR @ 1 PSI. BGG: 2 UNITS, TRIP GAS 6 UNITS.

6-12-81 5,651' MADE 115' IN DESERT CREEK FORMATION. MW 11.4, VIS 54. DRLD 5,535'-5,651'. POH F/CORE #5 @ 6 AM, RIH W/CORE BBL. BGG: 2 UNITS. TRIP GAS: 25 UNITS. LITH: 50% SILTSTONE, 20% ANNAHYDRITE, 10% SHALE, 20% LIMESTONE.

8-13-81 5,709' MADE 58' IN DESERT CREEK FORMATION. MW 11.4, VIS 48. CORE #5 5,651'-5,709' (58'), POH L/D CORE #5 & CORE BBL. GOT 7,000 UNITS TRIP GAS, CHECKED FLOW, NO FLOW, CIRC 1 HRS, CHECK FOR FLOW, NO FLOW. CORE #5 10' DOLOMITE, 1' SHALE, 1' LIMESTONE, 9' SHALE W/LAST 1' HAVING ODOR, 24' SHALE W/O ANY ODOR, 9' SHALE DRK, 1' LIMESTONE, 2' DOLOMITE. BGG: 2 UNITS. TRIP GAS 7,000 UNITS.

8-14-81 5,709' MADE 0' IN DESERT CREEK FORMATION. MW 11.4, VIS 50. FIH W/DST #2, SET PKRS @ 5,531' & 5,537', TEST 5,709'-5,537' (172'), IF 15 MINS, ISI 30 MINS, FF 2 HRS, FSI 4 HRS, POH 12 STDS, CLOSED IN DP & WO DAYLIGHT, IF GOOD FLOW TO BTM OF BUCKET, BUILT TO 4 PSI, 1 HR 12 MINS INTO FF, HAD GAS TO SURF, MAX OF 35 PSI ON 8/64" CHOKE (17 MCF) DROPPED TO 5 PSI (5 MCF), PU 6,000# STRING WT WHEN PULLING OFF BTM, PRESENTLY POH W/DST #2.

RECEIVED
AUG
DIVISION OF
OIL, GAS & MINING

TINCUP MESA #1-25 WELL HISTORY

7-29-81 3,823' MADE 253' IN CUTLER FORMATION. MW 11.1, VIS 38. DLRG AHEAD, NO PROBLEMS. LITH: 80% SILTSTONE RED BRN, 10% SHALE RED BRN, 10% SS WHITE. BGG: 2 UNITS, C1 1-2 UNITS.

7-30-81 3,975' MADE 152' IN CUTLER FORMATION. MW 10.5, VIS 33. DRLG AHEAD TO 3,931', SURV & POH F/BIT #5. RIH, REAM 70' TO BTM, 15' FILL. SMALL WTR FLOW. LITH: 70% SILTSTONE RED BRM, 20% SS WHITE, 10% SHALE RED BRN. BGG: 2 UNITS, 1-2 UNITS C1.

7-31-81 4,263' MADE 288' IN HONAKER TRAIL FORMATION. MW 11.1, VIS 41. DLRG AHEAD W/NO PROBLEMS. LITH: 60% SILTSTONE & SHALE CHOC BRN, 10% SS WHITE, 10% LS WHITE TO LT GRAY, 20% SHALE BRN GRAY. BGG: 2 UNITS, 1-2 UNITS C1. HONAKER TRAIL TOP @ 4,110'.

8-1-81 4,486' MADE 223' IN HONAKER TRAIL FORMATION. MW 11.1, VIS 40. DLRD & SURV, NO PROBLEMS. LITH: 50% LIMESTONE GRAY BRN, 25% SS WHITE TO LT GRAY, 20% SILTSTONE MED BRN, 5% GRAY SHALE. BGG: 3 UNITS, 1-2 UNITS C1.

8-2-81 4,670' MADE 184' IN HONAKER TRAIL FORMATION. MW 10.8, VIS 53. DLRG AHEAD, NO PROBLEMS. LITH: 70% LIMESTONE CREAMY COLOR, 30% SILTSTONE LT GRAY, TR SS & SHALE. BGG: 2 UNITS, 1-2 UNITS C1.

8-3-81 4,740' MADE 70' IN HONAKER TRAIL FORMATION. MW 10.5, VIS 45. DLRG AHEAD, POH F/BIT #6 @ 4,734'. RIH, WASH 30' TO BTM. LITH: 50% SILTSTONE MED GRAY, 30% SS WHITE, 20% LIMESTONE LT GRAY, TR SHALE. BGG: 2 UNITS, C1 1-2 UNITS, NO TRIP GAS.

8-4-81 4,937' MADE 197' IN HONAKER TRAIL FORMATION. MW 10.7, VIS 46. DLRG AHEAD, NO PROBLEMS. LITH: 60% LIMESTION MED GRAY, 30% SILTSTONE MED GRAY, 10% SS WHITE, TR SHALE. BGG: 2 UNITS, 1-2 UNITS C1, NO SHOWS.

8-5-81 5,095' MADE 158' IN HONAKER TRAIL FORMATION. MW 10.9, VIS 44. DLRG AHEAD W/NO PROBLEMS. CORE PT EST @ 5,330'. LITH: 70% LIMESTONE MED GRAY, 30% SILTSTONE MED GRAY, TR OF SHALE. BGG: 20 UNITS, 1-2 UNITS C1.

8-6-81 5,250' MADE 155' IN PARADOX FORMATION. MW 11.2, VIS 47. DRLG AHEAD, NO PROBLEMS. PARADOX TOP @ 5,170'. LITH: 80% LIMESTONE & 20% SILTSTONE. BGG: 1-6 UNITS, AVG 3 UNITS.

8-7-81 5,320' MADE 70' IN ISMAY FORMATION. MW 11.2, VIS 46. DLRD TO 5,337', REACHED CORE PT, POH, SLM CORRECT DEPTH TO 5,320', PU CORE BBL & RIH, TOP ISMAY @ 5,315'. LITH: 30% ANNHYDRITE, 40% SHALE, 30% LIMESTONE & DOLOMITE. BGG: 1-7 UNITS, AVG 4 UNITS.

8-8-81 5,282' MADE 62' IN ISMAY FORMATION. MW 10.6, VIS 51. CORE #1 F/5,320'-5,347', CORE 5,320'-5,342' CORE BBL PLUGGED, PRES WENT TO 2,800#, REDUCED WT F/28,000#-5,000# & CORE TO 5,347', WHEN CORE BBL JAMMED. POH SLM, CORRECTED DEPTH TO 5,362', L/D CORE #1, HAD FULL RECOVERY, RECOVERED 1' ANNHYDRITE, 1' SHALY DOLOMITE, 1' ANNHYDRITE, 14' DOLOMITE, 10' ANNHYDRITE. PRESENTLY CUTTING CORE #2.

TINCUP MESA #1-25 WELL HISTORY

7-18-81 84' MADE 27' IN MORRISON FORMATION. MW 8.6, VIS 34. SPUD WELL @ 3:30 AM 7-18-81, DRLG @ 84'.

7-19-81 530' MADE 446' IN MORRISON FORMATION. MW 8.6, VIS 47. DLRD & SURV 84'-530'.

7-20-81 1,004' MADE 474' IN KAYENTA FORMATION. MW 8.9, VIS 41. DRLD TO 697'. DLRD TO 1,004' W/NO WTR FLOWS. DRLG AHEAD.

7-21-81 1,470' MADE 466' IN WINGATE FORMATION. MW 8.9, VIS 38. DRLD TO 1,470', BIT TORQUED UP, POH, WASH & REAM 60' TO BTM.

7-22-81 1,560' MADE 90' IN WINGATE FORMATION. MW 8.9, VIS 50. FIN REAMING TO BTM, DRLD TO 1,560', POH. CSG RAN AS FOLLOWS:

NO. JTS	SIZE	OVERALL LENGTH	EFFECTIVE LENGTH	SETTING FROM	DEPTH TO
	9-5/8" FLOAT SHOE	1.90	1.90	1556.61	1554.71
1	9-5/8" 36# 8RD K-55 STC R-3 C-1	39.61	39.33	1554.71	1515.38
	9-5/8" REXTOR FLOAT COLLAR	1.48	1.2	1515.38	1514.18
37	9-5/8" 36# 8RD K-55 STC R-3 C-1	1476.39	1466.37	1514.18	47.81
1	CUTOFF 8RD K-55 R-3 C-1	32.83	32.56	47.81	15.25
	NATIONAL 11' 3,000# " X 9-5/8" SOW BRADEN HEAD	1.60	1.42	15.25	13.83
39		1548.83	1538.26		

NO. CENTRALIZERS; 5; DEPTH OF JTS: MIDDLE OF 1ST JT, 3, 5, 7, 9. LANDED SHOE @ 1,556.61' KB. 1ST STAGE: CMTD CSG W/340 SKS OF BJ LITE W/1/4#/SK FLOCELE, 2% CACL2, FOLLOWED BY 300 SKS OF B W/1/4#/FLOCELE, 2% CACL2. USED 100% EXCESS VOLUME. PMPD 10 BBLS WTR AHEAD, 0 BBLS BEHIND. MIXING TIME 31 MINS, PMPG TIME 23 MINS, TOTAL TIME 34 MINS. CIRC PRESS 200, DISPLACEMENT PRESS 750, MAX PRESS 750, DISPLACED CMT W/116 BBLS WTR W/BJ PUMP. BMPD PLUG W/1,500 PSI. PLUG DOWN @ 10 PM 7-21-81. GOOD RETURNS WHILE CMT'G. CIRC 20 BBLS CMT TO SURFACE. FLOAT EQUIPMENT CHECKED OK. WOC 12 HRS. EST CMT TOP IN ANNULUS SURFACE. TAGGED CMT W/1" @ 26' KB 14' BELOW GL.

7-23-81 1,560' MADE 0' IN WINGATE FORMATION. MW 8.3, VIS 35. NU & WELD ON HEAD. TEST HEAD TO 1,000 PSI. TEST RAMS CHOKE VALVE & LINES 1,500 PSI OI. TEST CSG 1,500 PSI OK. CMT TOP OF CSG W/10 SKS CMT. PU BHA, RIH, TAG CMT @ 1,510'. DRILL CMT.

7-24-81 2,275' MADE 715' IN WINGATE FORMATION. MW 8.8, VIS 30. DRLD CMT, RUN LEAKOFF TO 13.8 PPG EQUIV. LITH: RED & ORANGE SHALE. BGG: 5 UNITS 3-4 UNITS C1.

7-25-81 2,675' MADE 400' IN CUTLER FORMATIO. MW 9.0, VIS 32. DRLD, CIRC BU & POH F/SPACER SPOOL, WTR FLOW 2,397' 1/2"-1", BUILD MW TO 9.0 PPG & KILLED FLOW, REAM 30' TO BTM, DRLG AHEAD, NO PROBLEMS. LITH: 50% RED BRN SILTSTONE, 50% SANDY SHALES GREEN-GRAY. BGG: 8 UNITS (6-7 UNITS C1) TOP MOENKOPI 2,362', CUTLER 2,440.

7-26-81 3,198' MADE 523' IN CUTLER FORMATION. MW 9.9, VIS 31. DRLD & SURV, 3" WATER FLOW @ 2,917', BUILD MW TO 9.9 TO KILL FLOW. LITH: 50% RED BRN SILTSTONE, 50% SS GREEN GRAY. BGG: 6-7 UNITS (C1 5-6 UNITS).

7-27-81 3,300' MADE 102' IN CUTLER FORMATION. MW 10.5, VIS 33. DLRG AHEAD, SALT WTR FLOW @ 3,200', SI & BUILD MW TO 11.0 PPG, RETURNS @ 10.3 PPG, SI BUILD MW TO 11.3 PPG & KILLED FLOW. DRLD AHEAD TO 3,300', MUD RETURNS 10.5 PPG & SMALL WTR FLOW. LITH: 30% SS, 70% SHALE & SILTSTONE. BGG: 3 UNITS, C1 2-3 UNITS.

7-28-81 3,570' MADE 270' IN CUTLER FORMATION. MW 11.1, VIS 40. KILL WTR FLOW W/11.1 PPG WHILE DRLG. DRLD & SURV, NO PROBLEMS. LITH: 70% SILTSTONE RED BRN, 20% SS RED BRN, 10% SHALE GREEN-GRAY. BGG: 3 UNITS, C1 2 UNITS.

ANALYST: J. E. GROSS 8-SEP-81 11:57:33

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*   SCHLUMBERGER  *
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COMPANY : MARATHON OIL CO.

WELL : TIN CUP MESA #1-25

FIELD : WILDCAT

COUNTRY : USA

REFERENCE : 10066,110230

43-037-30690

Schlumberger

ANALYST: J. E. GROSS 8-SEP-81 11:57:34

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*   SCHLUMBERGER  *
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COMPANY : MARATHON OIL CO.

WELL : TIN CUP MESA #1-25

FIELD : WILDCAT

COUNTRY : USA

REFERENCE : 10066,110230

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5000	.1	100	.9	0	2.71	5	13.8	3.9
5001	.1	100	.5	0	2.70	13	13.8	3.9
5002	.1	77	4.3	0	2.72	35	13.7	3.9
5003	.9	47	9.1	0	2.76	35	13.7	3.9
5004	29.8	26	15.2	1.0	2.80	28	13.6	3.8
5005	.1	79	3.4	0	2.70	32	13.4	3.7
5006	.1	100	2.0	0	2.70	20	13.4	3.7
5007	.1	87	4.2	0	2.72	17	13.4	3.7
5008	.1	100	3.1	0	2.70	12	13.4	3.7
5009	.1	100	.2	0	2.70	12	13.3	3.7
5010	.1	100	.1	0	2.75	16	13.3	3.7
5011	.1	100	.1	0	2.75	8	13.3	3.7
5012	.1	100	0	0	2.71	5	13.3	3.7
5013	.1	100	.5	0	2.71	3	13.3	3.7
5014	.1	100	.4	0	2.71	3	13.3	3.7
5015	.1	100	0	0	2.72	4	13.3	3.7
5016	.1	100	0	0	2.73	3	13.3	3.7
5017	.1	100	0	0	2.71	4	13.3	3.7
5018	.1	100	.1	0	2.75	2	13.3	3.7
5019	.1	100	0	0	2.74	1	13.3	3.7
5020	.1	100	0	0	2.73	2	13.3	3.7
5021	.1	100	.5	0	2.71	3	13.3	3.7
5022	.1	100	.1	0	2.71	4	13.3	3.7
5023	.1	100	0	0	2.74	3	13.3	3.7
5024	.1	100	0	0	2.72	7	13.3	3.7
5025	.1	100	0	0	2.71	10	13.3	3.7
5026	.1	100	.9	0	2.72	10	13.3	3.7
5027	.1	100	.5	0	2.70	4	13.3	3.7
5028	.1	100	.2	0	2.71	2	13.3	3.7
5029	.1	100	0	0	2.71	5	13.3	3.7
5030	.1	100	0	0	2.73	5	13.3	3.7
5031	.1	100	.6	0	2.71	4	13.3	3.7
5032	.1	100	.5	0	2.71	9	13.3	3.7
5033	.1	100	0	0	2.73	18	13.3	3.7
5034	.1	100	.1	0	2.71	19	13.3	3.7
5035	.1	100	0	0	2.74	18	13.3	3.7
5036	.1	100	0	0	2.73	20	13.3	3.7
5037	.1	100	0	0	2.75	18	13.3	3.7
5038	.1	100	.8	0	2.70	18	13.3	3.7
5039	.1	100	1.0	0	2.71	16	13.3	3.7
5040	.1	100	2.2	0	2.71	11	13.3	3.7
5041	.1	100	2.3	0	2.70	10	13.2	3.7
5042	.1	100	0	0	2.74	20	13.2	3.7
5043	.1	100	0	0	2.72	19	13.2	3.7
5044	.1	100	0	0	2.72	19	13.2	3.7
5045	.1	100	1.5	0	2.71	14	13.2	3.7
5046	.1	100	2.2	0	2.71	11	13.2	3.7

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5048	.1	100	.5	0	2.71	19	13.2	3.7
5049	.1	100	.4	0	2.70	21	13.2	3.7
5050	.1	100	0	0	2.74	20	13.2	3.7
5051	.1	100	.3	0	2.71	22	13.2	3.7
5052	.1	100	.7	0	2.72	18	13.2	3.7
5053	.1	100	.9	0	2.71	19	13.1	3.7
5054	.1	100	.1	0	2.73	24	13.1	3.7
5055	.1	100	.3	0	2.73	24	13.1	3.7
5056	.1	100	2.0	0	2.71	19	13.1	3.7
5057	.1	100	1.1	0	2.71	20	13.1	3.7
5058	.1	100	1.2	0	2.71	21	13.1	3.7
5059	.1	100	1.7	0	2.69	19	13.1	3.7
5060	.1	100	0	0	2.74	21	13.1	3.7
5061	.1	100	0	0	2.74	21	13.1	3.7
5062	.1	100	0	0	2.71	25	13.1	3.7
5063	.1	100	0	0	2.72	31	13.1	3.7
5064	.1	100	.9	0	2.75	48	13.1	3.7
5065	.1	100	1.4	0	2.70	45	13.1	3.7
5066	.1	100	1.0	0	2.70	40	13.0	3.7
5067	.1	100	1.5	0	2.71	41	13.0	3.7
5068	.1	100	3.1	0	2.70	33	13.0	3.7
5069	.1	100	3.6	0	2.70	25	13.0	3.7
5070	.1	100	2.9	0	2.71	26	13.0	3.7
5071	.1	100	1.3	0	2.71	31	12.9	3.7
5072	.1	100	1.0	0	2.71	38	12.9	3.7
5073	.1	100	1.3	0	2.71	41	12.9	3.7
5074	.1	100	1.0	0	2.71	43	12.9	3.7
5075	.1	100	.8	0	2.70	49	12.9	3.7
5076	.1	100	1.7	0	2.73	49	12.9	3.7
5078	.1	100	.4	0	2.71	40	12.8	3.7
5079	.1	100	0	0	2.72	12	12.8	3.7
5080	.1	100	0	0	2.71	14	12.8	3.7
5081	.1	100	0	0	2.71	12	12.8	3.7
5082	.1	100	0	0	2.73	12	12.8	3.7
5083	.1	100	2.1	0	2.72	12	12.8	3.7
5084	.1	100	1.2	0	2.70	5	12.8	3.7
5085	.1	100	.9	0	2.72	13	12.8	3.7
5086	.1	100	.9	0	2.71	22	12.8	3.7
5087	.1	100	1.2	0	2.70	28	12.8	3.7
5088	.1	100	.5	0	2.76	36	12.8	3.7
5089	.1	100	.1	0	2.76	41	12.8	3.7
5090	.1	100	.3	0	2.79	20	12.8	3.7
5091	.1	100	1.4	.1	2.74	35	12.8	3.7
5092	.1	100	2.7	0	2.73	40	12.7	3.7
5093	.1	100	.3	0	2.70	42	12.7	3.7
5094	.1	100	1.7	0	2.70	41	12.7	3.7

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5096	.1	100	.1	0	2.70	41	12.7	3.7
5097	.1	100	1.5	0	2.74	40	12.7	3.7
5098	.1	100	1.1	0	2.70	32	12.7	3.7
5099	.1	100	0	0	2.71	28	12.6	3.7
5100	.1	100	1.2	0	2.70	30	12.6	3.7
5101	.1	100	1.2	0	2.71	34	12.6	3.7
5102	.1	100	1.6	0	2.71	34	12.6	3.7
5103	.1	98	3.9	0	2.70	50	12.6	3.7
5104	.1	100	1.1	0	2.71	49	12.5	3.7
5105	.1	100	0	0	2.72	6	12.5	3.7
5106	.1	100	0	0	2.74	0	12.5	3.7
5107	.1	100	0	0	2.74	0	12.5	3.7
5108	.1	100	.3	0	2.71	7	12.5	3.7
5109	.1	68	4.9	0	2.71	9	12.5	3.7
5110	.1	100	.9	0	2.73	14	12.5	3.7
5111	.1	100	0	0	2.71	5	12.5	3.7
5112	.1	100	0	0	2.73	1	12.5	3.7
5113	.1	100	0	0	2.75	0	12.5	3.7
5114	.1	100	0	0	2.77	0	12.5	3.7
5115	.1	100	0	0	2.77	0	12.5	3.7
5116	.1	100	.2	0	2.72	0	12.5	3.7
5117	.1	100	.3	0	2.72	0	12.5	3.7
5118	.1	100	0	0	2.73	2	12.4	3.7
5119	.1	100	0	0	2.71	6	12.4	3.7
5120	.1	100	2.9	0	2.70	45	12.4	3.7
5121	.1	100	2.8	0	2.75	27	12.4	3.7
5122	.1	100	.5	0	2.70	19	12.4	3.7
5123	.1	100	.1	0	2.70	14	12.4	3.7
5124	.1	100	0	0	2.73	33	12.4	3.7
5125	.1	100	0	0	2.74	38	12.4	3.7
5126	.1	100	.1	0	2.76	37	12.4	3.7
5127	.1	100	0	0	2.72	36	12.4	3.7
5128	.1	100	.6	0	2.71	34	12.4	3.7
5129	.1	100	1.9	0	2.71	28	12.4	3.7
5130	.1	100	.9	0	2.71	31	12.3	3.7
5131	.1	100	.1	0	2.73	37	12.3	3.7
5132	.1	100	1.1	0	2.71	36	12.3	3.7
5133	.1	100	2.6	0	2.70	35	12.3	3.7
5134	.1	100	1.2	0	2.71	41	12.3	3.7
5135	.1	100	.4	0	2.75	46	12.3	3.7
5136	.1	100	.1	0	2.77	38	12.3	3.7
5137	.1	100	1.1	0	2.72	36	12.3	3.7
5138	.1	100	2.3	0	2.71	33	12.3	3.7
5139	.1	100	1.4	0	2.73	37	12.2	3.7
5140	.1	100	1.8	0	2.71	37	12.2	3.7
5141	.1	100	.9	0	2.71	38	12.2	3.7
5142	.1	100	.8	0	2.71	40	12.2	3.7

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5144	.1	100	3.6	0	2.73	42	12.2	3.7
5145	.1	100	1.2	0	2.70	35	12.2	3.7
5150	.1	100	1.7	0	2.69	43	12.1	3.7
5162	.1	100	1.5	0	2.75	19	11.9	3.7
5163	.1	100	.1	0	2.73	5	11.9	3.7
5164	.1	100	0	0	2.77	1	11.9	3.7
5165	.1	100	.1	0	2.77	2	11.9	3.7
5166	.1	100	0	0	2.71	12	11.9	3.7
5167	.1	100	1.6	0	2.70	12	11.9	3.7
5168	.1	100	1.0	0	2.71	25	11.9	3.7
5169	.1	100	.8	0	2.78	37	11.9	3.7
5170	.1	100	1.3	0	2.72	29	11.9	3.7
5171	.1	100	.1	0	2.73	25	11.8	3.7
5172	.1	100	0	0	2.74	27	11.8	3.7
5173	.1	100	0	0	2.71	16	11.8	3.7
5174	.1	100	.1	0	2.75	3	11.8	3.7
5175	.1	100	.1	0	2.75	3	11.8	3.7
5176	.1	100	0	0	2.74	5	11.8	3.7
5177	.1	100	0	0	2.72	14	11.8	3.7
5178	.1	100	.4	0	2.71	13	11.8	3.7
5179	.1	100	.2	0	2.70	13	11.8	3.7
5180	.1	100	.4	0	2.72	14	11.8	3.7
5181	.1	100	1.6	0	2.70	12	11.8	3.7
5182	.1	100	.5	0	2.72	16	11.8	3.7
5183	.1	100	0	0	2.74	17	11.8	3.7
5184	.1	100	0	0	2.73	17	11.8	3.7
5185	.1	100	0	0	2.73	17	11.8	3.7
5186	.1	100	0	0	2.72	16	11.8	3.7
5187	.1	100	1.8	0	2.70	6	11.8	3.7
5188	.1	100	.6	0	2.71	4	11.8	3.7
5189	.1	100	.6	0	2.71	17	11.8	3.7
5190	.1	100	.6	0	2.71	27	11.8	3.7
5191	.1	100	1.5	0	2.71	26	11.8	3.7
5192	.1	100	2.0	0	2.71	19	11.8	3.7
5193	.1	100	1.5	0	2.71	19	11.7	3.7
5194	.1	100	2.6	0	2.71	17	11.7	3.7
5195	.1	100	2.6	0	2.70	15	11.7	3.7
5196	.1	100	1.5	0	2.72	17	11.7	3.7
5197	.1	100	1.1	0	2.70	8	11.7	3.7
5198	.1	100	1.0	0	2.70	7	11.7	3.7
5199	.1	100	1.4	0	2.72	24	11.6	3.7
5200	.1	100	2.9	0	2.70	31	11.6	3.7
5201	.1	100	2.3	0	2.70	37	11.6	3.7
5202	.1	100	.6	0	2.72	43	11.6	3.7
5203	.1	100	1.5	0	2.70	38	11.6	3.7

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5205	.1	100	1.5	0	2.71	38	11.5	3.7
5206	.1	100	2.0	0	2.71	36	11.5	3.7
5207	.1	100	1.3	0	2.71	28	11.5	3.7
5208	.1	100	0	0	2.71	22	11.5	3.7
5209	.1	100	.1	0	2.72	14	11.5	3.7
5210	.1	100	.7	0	2.71	5	11.5	3.7
5211	.1	100	.1	0	2.71	5	11.5	3.7
5212	.1	100	0	0	2.73	4	11.5	3.7
5213	.1	100	0	0	2.71	3	11.5	3.7
5214	.1	100	0	0	2.75	1	11.5	3.7
5215	.1	100	0	0	2.73	2	11.5	3.7
5216	.1	100	.1	0	2.72	2	11.5	3.7
5217	.1	100	0	0	2.73	2	11.5	3.7
5218	.1	100	0	0	2.73	2	11.5	3.7
5219	.1	100	.1	0	2.71	4	11.5	3.7
5220	.1	100	.5	0	2.70	2	11.5	3.7
5221	.1	100	0	0	2.74	1	11.5	3.7
5222	.1	100	0	0	2.76	0	11.5	3.7
5223	.1	100	.1	0	2.72	2	11.5	3.7
5224	.1	100	0	0	2.71	3	11.5	3.7
5225	.1	100	0	0	2.71	3	11.5	3.7
5226	.1	100	.1	0	2.71	2	11.5	3.7
5227	.1	100	0	0	2.76	1	11.5	3.7
5228	.1	98	4.2	0	2.72	17	11.5	3.7
5229	.1	73	4.3	0	2.72	15	11.4	3.7
5230	.1	100	.4	0	2.70	7	11.4	3.6
5231	.1	100	1.0	0	2.71	14	11.4	3.6
5232	.1	100	2.0	0	2.71	21	11.4	3.6
5233	.1	100	3.2	0	2.69	24	11.4	3.6
5234	.1	100	2.3	0	2.71	35	11.3	3.6
5235	.1	100	.1	0	2.71	42	11.3	3.6
5236	.1	100	0	0	2.72	40	11.3	3.6
5237	.1	100	1.9	0	2.71	32	11.3	3.6
5238	.1	100	.7	0	2.71	42	11.3	3.6
5240	.1	100	3.4	0	2.71	40	11.3	3.6
5241	.1	100	1.0	0	2.72	33	11.2	3.6
5242	.1	100	1.9	0	2.74	30	11.2	3.6
5243	.1	100	.8	0	2.69	9	11.2	3.6
5244	.1	100	.6	0	2.71	2	11.2	3.6
5245	.1	100	.1	0	2.71	4	11.2	3.6
5246	.1	100	0	0	2.74	3	11.2	3.6
5247	.1	100	.1	0	2.70	5	11.2	3.6
5248	.1	100	.8	0	2.70	2	11.2	3.6
5249	.1	100	1.0	0	2.70	1	11.2	3.6
5250	.1	100	0	0	2.71	4	11.2	3.6
5251	.1	100	0	0	2.73	3	11.2	3.6

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5253	.1	100	.3	0	2.71	3	11.2	3.6
5254	.1	100	.1	0	2.71	3	11.2	3.6
5255	.1	100	0	0	2.72	3	11.2	3.6
5256	.1	100	0	0	2.73	3	11.2	3.6
5257	.1	100	.1	0	2.77	2	11.2	3.6
5258	.1	100	0	0	2.73	5	11.2	3.6
5259	.1	100	0	0	2.71	11	11.2	3.6
5260	.1	100	3.3	0	2.73	46	11.2	3.6
5262	.1	100	3.6	0	2.75	50	11.1	3.6
5263	.1	100	1.2	0	2.70	23	11.0	3.6
5264	.1	100	.1	0	2.74	10	11.0	3.6
5265	.1	100	.1	0	2.75	11	11.0	3.6
5266	.1	100	.2	0	2.78	13	11.0	3.6
5267	.1	100	.1	0	2.76	17	11.0	3.6
5268	.1	100	.4	0	2.71	16	11.0	3.6
5269	.1	100	0	0	2.72	14	11.0	3.6
5270	.1	100	.3	0	2.71	13	11.0	3.6
5271	.1	100	1.0	0	2.71	8	11.0	3.6
5272	.1	100	0	0	2.72	9	11.0	3.6
5273	.1	100	0	0	2.72	12	11.0	3.6
5274	.1	100	0	0	2.73	12	11.0	3.6
5275	.1	100	.7	0	2.70	9	11.0	3.6
5276	.1	100	1.0	0	2.72	5	11.0	3.6
5277	.1	100	1.3	0	2.71	2	11.0	3.6
5278	.1	100	.8	0	2.71	4	11.0	3.6
5279	.1	100	1.3	0	2.72	10	11.0	3.6
5280	.1	100	1.0	0	2.71	12	10.9	3.6
5281	.1	100	1.6	0	2.71	6	10.9	3.6
5282	.1	77	2.2	0	2.70	1	10.9	3.6
5283	.1	91	2.1	0	2.71	5	10.9	3.6
5284	.1	100	.7	0	2.72	10	10.9	3.6
5285	.1	100	1.8	0	2.71	8	10.9	3.6
5286	.1	100	2.3	0	2.72	5	10.8	3.6
5287	.1	100	1.9	0	2.70	3	10.8	3.6
5288	.1	100	.3	0	2.72	15	10.8	3.6
5289	.1	100	.2	0	2.71	23	10.8	3.6
5290	.1	100	2.1	0	2.71	18	10.8	3.6
5291	.1	100	2.6	0	2.70	19	10.8	3.6
5292	.1	100	2.0	0	2.73	28	10.7	3.6
5293	.1	100	2.2	0	2.70	27	10.7	3.6
5294	.1	100	1.8	0	2.71	28	10.7	3.6
5295	.1	100	1.2	0	2.71	34	10.7	3.6
5296	.1	100	.5	0	2.72	37	10.7	3.6
5297	.1	100	1.5	0	2.72	36	10.7	3.6
5298	.1	100	2.0	0	2.72	36	10.7	3.6
5299	.1	100	1.1	0	2.72	39	10.6	3.6

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5301	.1	100	2.3	0	2.71	37	10.6	3.6
5302	.1	100	2.8	0	2.73	38	10.6	3.6
5303	.1	100	2.0	0	2.72	40	10.6	3.6
5304	.1	100	2.2	0	2.72	38	10.5	3.6
5305	.1	100	2.3	0	2.72	35	10.5	3.6
5306	.1	73	4.3	0	2.71	29	10.5	3.6
5307	.1	75	4.1	0	2.71	27	10.5	3.6
5308	.1	100	3.1	0	2.70	33	10.4	3.6
5309	.1	100	1.1	0	2.73	48	10.4	3.6
5311	.1	88	3.1	0	2.72	44	10.4	3.6
5312	.1	100	1.8	0	2.70	45	10.3	3.6
5320	.1	100	1.9	0	2.76	48	10.2	3.6
5323	.1	100	.1	0	2.74	31	10.1	3.6
5324	.1	100	0	0	2.71	25	10.1	3.6
5325	.1	100	1.2	0	2.69	22	10.1	3.6
5326	.1	100	2.2	0	2.72	24	10.1	3.6
5327	.1	100	0	0	2.74	4	10.1	3.6
5328	.1	100	0	0	2.88	0	10.1	3.6
5329	.1	100	0	0	2.96	0	10.1	3.6
5330	.1	100	0	0	2.89	0	10.1	3.6
5331	.1	100	0	0	2.89	0	10.1	3.6
5332	.1	100	.1	0	2.81	4	10.1	3.6
5333	.1	87	.8	0	2.77	33	10.1	3.6
5334	.1	100	0	0	2.76	1	10.1	3.6
5335	.1	100	0	0	2.89	0	10.1	3.6
5336	.1	100	0	0	2.88	0	10.1	3.6
5337	.1	100	0	0	2.88	0	10.1	3.6
5338	.1	100	0	0	2.88	0	10.1	3.6
5339	.1	100	0	0	2.89	0	10.1	3.6
5340	.1	100	0	0	2.88	0	10.1	3.6
5341	.1	100	0	0	2.89	0	10.1	3.6
5342	.1	100	0	0	2.88	0	10.1	3.6
5343	.1	100	0	0	2.88	0	10.1	3.6
5344	.1	100	0	0	2.87	0	10.1	3.6
5345	.1	100	1.0	0	2.77	25	10.1	3.6
5346	.1	100	.8	0	2.82	25	10.1	3.6
5347	.1	100	.4	0	2.80	29	10.1	3.6
5348	.1	100	1.0	0	2.75	36	10.1	3.6
5349	.1	100	.1	0	2.71	28	10.1	3.6
5350	.1	100	.5	0	2.70	20	10.1	3.6
5351	.1	100	.3	0	2.71	22	10.1	3.6
5352	.1	100	.2	0	2.79	8	10.0	3.6
5353	.1	100	0	0	2.88	0	10.0	3.6
5354	.1	100	0	0	2.88	0	10.0	3.6

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DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5356	.1	100	0	0	2.87	0	10.0	3.6
5357	.1	100	0	0	2.88	0	10.0	3.6
5358	.1	100	0	0	2.95	0	10.0	3.6
5359	.1	100	0	0	3.00	0	10.0	3.6
5360	.1	100	0	0	3.00	0	10.0	3.6
5361	.1	100	0	0	3.02	0	10.0	3.6
5362	.1	100	0	0	2.99	0	10.0	3.6
5363	.1	100	0	0	2.99	0	10.0	3.6
5364	.1	100	0	0	3.02	0	10.0	3.6
5365	.1	100	0	0	2.99	0	10.0	3.6
5366	.1	100	0	0	2.89	0	10.0	3.6
5367	.1	100	0	0	2.88	0	10.0	3.6
5368	.1	100	0	0	2.88	0	10.0	3.6
5369	.1	100	0	0	2.97	0	10.0	3.6
5370	.1	100	0	0	3.00	0	10.0	3.6
5371	.1	100	0	0	2.99	0	10.0	3.6
5372	.1	100	0	0	2.88	0	10.0	3.6
5373	.1	100	0	0	2.87	0	10.0	3.6
5374	.1	100	0	0	3.01	0	10.0	3.6
5375	.1	100	0	0	3.05	0	10.0	3.6
5376	.1	100	0	0	3.01	0	10.0	3.6
5377	.1	100	0	0	2.97	0	10.0	3.6
5378	.1	100	0	0	2.98	0	10.0	3.6
5379	.1	100	0	0	3.00	0	10.0	3.6
5380	.1	100	0	0	2.97	0	10.0	3.6
5381	.1	100	0	0	2.99	0	10.0	3.6
5382	.1	100	0	0	3.01	0	10.0	3.6
5383	.1	100	0	0	2.99	0	10.0	3.6
5384	.1	100	0	0	2.98	0	10.0	3.6
5385	.1	100	0	0	2.98	0	10.0	3.6
5386	.1	100	0	0	3.00	0	10.0	3.6
5387	.1	100	0	0	2.96	0	10.0	3.6
5388	.1	100	0	0	2.97	0	10.0	3.6
5389	.1	100	0	0	2.99	0	10.0	3.6
5390	.1	100	0	0	2.98	0	10.0	3.6
5391	.1	100	0	0	3.01	0	10.0	3.6
5392	.1	100	0	0	3.00	0	10.0	3.6
5393	.1	100	0	0	3.00	0	10.0	3.6
5394	.1	100	0	0	2.94	0	10.0	3.6
5395	.1	100	0	0	2.93	0	10.0	3.6
5396	.1	100	0	0	2.93	0	10.0	3.6
5397	.1	100	0	0	2.96	0	10.0	3.6
5398	.1	100	0	0	2.99	0	10.0	3.6
5399	.1	100	0	0	3.00	0	10.0	3.6
5400	.1	100	0	0	3.01	0	10.0	3.6
5401	.1	100	0	0	3.01	0	10.0	3.6
5402	.1	100	0	0	2.97	0	10.0	3.6

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DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5404	.1	100	0	0	2.96	0	10.0	3.6
5405	.1	100	0	0	3.01	0	10.0	3.6
5406	.1	100	0	0	2.98	0	10.0	3.6
5407	.1	100	0	0	2.98	0	10.0	3.6
5408	.1	100	0	0	2.96	0	10.0	3.6
5409	.1	100	0	0	2.96	0	10.0	3.6
5410	.1	100	0	0	2.98	0	10.0	3.6
5411	.1	100	0	0	2.91	0	10.0	3.6
5412	.1	100	0	0	2.88	0	10.0	3.6
5413	.1	100	1.0	0	2.87	9	10.0	3.6
5414	.1	100	2.1	.2	2.79	19	10.0	3.6
5415	.1	100	2.8	0	2.83	13	10.0	3.6
5416	.1	100	3.2	.5	2.88	14	10.0	3.6
5417	.1	78	4.0	0	2.85	6	9.9	3.6
5418	.1	66	4.6	.3	2.82	4	9.9	3.6
5419	.1	80	4.8	1.1	2.83	6	9.9	3.6
5420	1.0	57	10.2	2.0	2.81	10	9.8	3.6
5421	4.1	59	13.9	4.3	2.84	1	9.7	3.5
5422	28.9	44	19.0	5.9	2.86	0	9.5	3.4
5423	55.6	45	22.1	7.0	2.89	1	9.3	3.3
5424	3.1	83	13.6	4.0	2.89	2	9.1	3.2
5425	.1	100	5.6	1.0	2.83	0	9.0	3.2
5426	.1	100	0	0	2.80	0	9.0	3.2
5427	.1	100	.1	0	2.77	1	9.0	3.2
5428	.1	100	0	0	2.79	1	9.0	3.2
5429	.1	100	0	0	2.79	0	9.0	3.2
5430	.1	100	.1	0	2.77	2	9.0	3.2
5431	.1	100	.4	0	2.75	4	9.0	3.2
5432	.1	100	1.5	0	2.77	0	9.0	3.2
5433	.1	100	2.9	0	2.79	0	9.0	3.2
5434	.1	100	8.4	.7	2.81	0	8.9	3.2
5435	.8	100	10.9	2.7	2.83	0	8.8	3.2
5436	.1	100	5.7	0	2.81	0	8.7	3.2
5437	.1	98	8.3	1.1	2.77	1	8.7	3.2
5438	.1	100	5.4	0	2.76	0	8.6	3.2
5439	.1	100	2.5	0	2.75	0	8.5	3.2
5440	.1	100	2.8	0	2.75	1	8.5	3.2
5441	.1	100	3.0	0	2.74	3	8.5	3.2
5442	.1	100	1.6	0	2.74	2	8.5	3.2
5443	.1	100	.6	0	2.75	0	8.4	3.2
5444	.1	100	1.2	0	2.72	0	8.4	3.2
5445	.1	100	1.0	0	2.74	1	8.4	3.2
5446	.1	100	1.1	0	2.75	6	8.4	3.2
5447	.1	100	2.2	0	2.74	6	8.4	3.2
5448	.1	100	1.5	0	2.75	3	8.4	3.2
5449	.1	100	1.3	0	2.71	1	8.4	3.2
5450	.1	100	.5	0	2.73	8	8.4	3.2

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DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5452	.1	100	.7	0	2.75	2	8.3	3.2
5453	.1	100	.4	0	2.73	1	8.3	3.2
5454	.1	100	1.1	0	2.73	3	8.3	3.2
5455	.1	100	4.1	0	2.71	0	8.3	3.2
5456	.1	95	5.7	0	2.72	0	8.3	3.2
5457	.1	100	5.6	0	2.75	3	8.2	3.2
5458	.1	100	5.6	0	2.75	2	8.2	3.2
5459	.1	99	6.5	0	2.71	3	8.1	3.2
5460	.1	82	7.6	0	2.72	0	8.0	3.2
5461	.1	95	6.4	0	2.72	1	8.0	3.2
5462	.1	100	4.6	0	2.72	2	7.9	3.2
5463	.1	100	3.0	0	2.71	1	7.9	3.2
5464	.1	100	3.9	0	2.71	2	7.8	3.2
5465	.1	65	6.3	0	2.69	0	7.8	3.2
5466	.1	90	4.9	0	2.70	1	7.7	3.2
5467	.1	100	3.7	0	2.71	2	7.7	3.2
5468	.1	100	3.6	0	2.71	2	7.6	3.2
5469	.1	76	4.7	0	2.69	0	7.6	3.2
5470	.1	97	4.0	0	2.70	1	7.5	3.2
5471	.1	100	2.7	0	2.71	5	7.5	3.2
5472	.1	100	3.3	0	2.72	6	7.5	3.2
5473	.1	94	3.8	0	2.71	2	7.4	3.2
5474	.1	100	.1	0	2.70	5	7.4	3.2
5475	.1	100	.1	0	2.76	1	7.4	3.2
5476	.1	100	.4	0	2.79	0	7.4	3.2
5477	.1	100	7.1	0	2.81	7	7.4	3.2
5478	.7	100	11.4	.5	2.87	18	7.3	3.2
5479	2.6	95	13.4	2.5	2.85	7	7.2	3.2
5480	.1	99	7.4	0	2.86	0	7.1	3.2
5481	.4	97	10.1	1.9	2.86	10	7.0	3.1
5482	1.0	100	11.6	2.3	2.83	10	6.9	3.1
5483	.3	100	9.6	.9	2.83	0	6.8	3.1
5484	.1	100	3.2	0	2.77	0	6.7	3.1
5485	.1	100	.5	0	2.78	0	6.7	3.1
5486	.1	100	2.0	0	2.78	19	6.7	3.1
5487	.1	100	2.0	.1	2.82	35	6.6	3.1
5488	.1	100	1.5	0	2.86	36	6.6	3.1
5489	.1	100	.1	0	2.87	44	6.6	3.1
5490	.1	100	.7	0	2.86	40	6.6	3.1
5491	.1	62	2.9	.1	2.81	33	6.6	3.1
5492	.1	49	3.7	.2	2.80	31	6.6	3.1
5493	.1	53	3.0	.2	2.76	31	6.5	3.1
5494	.1	63	1.8	.1	2.77	35	6.5	3.1
5495	.1	51	2.6	.1	2.76	33	6.5	3.1
5496	.1	46	3.3	.2	2.77	31	6.5	3.1
5497	.1	60	2.4	0	2.75	29	6.4	3.1
5498	.1	49	3.4	0	2.74	29	6.4	3.0

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DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5500	.1	51	3.6	.2	2.78	33	6.3	3.0
5501	.1	63	2.5	.1	2.75	35	6.3	3.0
5502	.1	59	2.2	0	2.79	43	6.3	3.0
5503	.1	57	2.6	0	2.79	47	6.3	3.0
5504	.1	56	2.9	0	2.79	47	6.2	3.0
5505	.1	46	4.3	0	2.77	45	6.2	2.9
5506	.1	52	3.3	0	2.80	49	6.2	2.9
5507	.1	49	3.5	0	2.75	44	6.1	2.9
5508	.1	39	4.7	.1	2.73	37	6.1	2.9
5509	.1	48	3.1	0	2.75	42	6.0	2.9
5510	.1	53	2.1	0	2.76	47	6.0	2.9
5511	.1	48	2.6	0	2.78	49	6.0	2.8
5512	.1	47	2.8	0	2.79	48	6.0	2.8
5513	.1	42	3.4	0	2.79	48	5.9	2.8
5514	.1	37	4.2	0	2.76	44	5.9	2.8
5515	.5	26	6.2	0	2.82	44	5.9	2.8
5516	10.9	16	9.8	.1	2.87	40	5.8	2.7
5517	8.8	13	8.4	0	2.82	6	5.7	2.6
5518	.1	100	0	0	2.72	5	5.6	2.6
5519	.1	100	.5	0	2.70	7	5.6	2.6
5520	.1	100	.1	0	2.77	3	5.6	2.6
5521	.1	100	.1	0	2.76	1	5.6	2.6
5522	.1	100	0	0	2.71	5	5.6	2.6
5523	.1	100	.6	0	2.69	3	5.6	2.6
5524	.1	100	0	0	2.74	3	5.6	2.6
5525	.1	100	0	0	2.73	10	5.6	2.6
5526	.1	100	0	0	2.73	17	5.6	2.6
5527	.1	100	0	0	2.74	17	5.6	2.6
5528	.1	100	1.0	0	2.71	17	5.6	2.6
5529	.1	100	1.9	0	2.71	17	5.6	2.6
5530	.1	100	0	0	2.74	23	5.6	2.6
5531	.1	100	0	0	2.75	25	5.6	2.6
5532	.1	100	.1	0	2.77	23	5.6	2.6
5533	.1	100	.3	0	2.86	7	5.6	2.6
5534	.1	100	.5	0	2.84	20	5.6	2.6
5535	.1	100	.4	0	2.87	8	5.6	2.6
5536	.1	100	0	0	3.02	0	5.6	2.6
5537	.1	100	0	0	2.98	0	5.6	2.6
5538	.1	100	0	0	2.88	0	5.6	2.6
5539	.1	100	0	0	2.87	0	5.6	2.6
5540	.1	100	0	0	2.98	0	5.6	2.6
5541	.1	100	0	0	2.97	0	5.6	2.6
5542	.1	100	0	0	2.98	0	5.6	2.6
5543	.1	100	0	0	2.99	0	5.6	2.6
5544	.1	100	0	0	2.96	0	5.6	2.6
5545	.1	100	0	0	2.95	0	5.6	2.6
5546	.1	100	0	0	3.01	0	5.6	2.6

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5548	.1	100	0	0	2.92	0	5.6	2.6
5549	.1	100	0	0	3.00	0	5.6	2.6
5550	.1	100	0	0	3.01	0	5.6	2.6
5551	.1	100	0	0	2.88	0	5.6	2.6
5552	.1	100	0	0	2.88	0	5.6	2.6
5553	.1	100	0	0	2.97	0	5.6	2.6
5554	.1	100	0	0	2.88	0	5.6	2.6
5555	.1	100	0	0	2.88	0	5.6	2.6
5556	.1	100	0	0	2.87	0	5.6	2.6
5557	.1	100	0	0	2.89	0	5.6	2.6
5558	.1	100	.2	0	2.89	4	5.6	2.6
5559	.1	100	2.0	0	2.81	13	5.6	2.6
5560	.1	100	2.1	0	2.85	23	5.5	2.6
5561	.1	100	3.8	0	2.83	24	5.5	2.6
5562	.1	100	4.6	.4	2.80	24	5.5	2.6
5563	.1	100	3.6	.2	2.82	31	5.4	2.6
5564	.1	100	2.6	.1	2.82	34	5.4	2.6
5565	.1	100	1.8	0	2.84	31	5.4	2.6
5566	.1	100	1.1	0	2.78	20	5.3	2.6
5567	.1	100	2.1	0	2.76	26	5.3	2.6
5574	16.8	19	11.5	0	2.85	15	5.0	2.4
5575	.1	100	2.4	0	2.72	12	5.0	2.4
5576	.1	100	2.4	0	2.70	5	4.9	2.4
5577	.1	100	1.4	0	2.71	10	4.9	2.4
5578	.1	100	.5	0	2.70	16	4.9	2.4
5579	.1	100	2.2	0	2.71	16	4.9	2.4
5580	.1	100	3.9	0	2.74	15	4.9	2.4
5581	.1	100	4.4	.3	2.75	19	4.8	2.4
5582	.1	100	4.5	.1	2.79	23	4.8	2.4
5583	.1	100	4.9	.1	2.83	25	4.7	2.4
5584	.1	100	4.1	.1	2.82	32	4.7	2.4
5585	.1	100	1.8	0	2.89	49	4.7	2.4
5586	.1	63	1.8	0	2.87	41	4.6	2.4
5587	.1	100	0	0	2.89	0	4.6	2.4
5588	.1	100	0	0	2.98	0	4.6	2.4
5589	.1	100	0	0	2.95	0	4.6	2.4
5590	.1	100	0	0	2.91	0	4.6	2.4
5591	.1	100	0	0	2.99	0	4.6	2.4
5592	.1	100	0	0	3.00	0	4.6	2.4
5593	.1	100	0	0	2.98	0	4.6	2.4
5594	.1	100	0	0	2.96	0	4.6	2.4
5595	.1	100	0	0	2.97	0	4.6	2.4
5596	.1	100	0	0	2.99	0	4.6	2.4
5597	.1	100	0	0	2.97	0	4.6	2.4
5598	.1	100	0	0	2.99	0	4.6	2.4
5599	.1	100	0	0	3.00	0	4.6	2.4

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5601	.1	100	0	0	2.98	0	4.6	2.4
5602	.1	100	0	0	3.00	0	4.6	2.4
5603	.1	100	0	0	2.87	0	4.6	2.4
5604	.1	100	0	0	2.88	0	4.6	2.4
5605	.1	100	0	0	2.87	0	4.6	2.4
5606	.1	100	0	0	2.89	0	4.6	2.4
5607	.1	100	0	0	2.88	0	4.6	2.4
5608	.1	100	0	0	2.89	0	4.6	2.4
5609	.1	100	.2	0	2.79	12	4.6	2.4
5610	.1	100	.1	0	2.76	6	4.6	2.4
5611	.1	100	.1	0	2.70	6	4.6	2.4
5612	.1	100	.9	0	2.71	21	4.6	2.4
5613	.1	100	1.3	0	2.74	29	4.6	2.4
5614	.1	100	.7	0	2.73	32	4.6	2.4
5615	.1	100	1.6	0	2.74	29	4.6	2.4
5616	.1	100	.4	0	2.72	25	4.6	2.4
5617	.1	100	1.1	0	2.71	22	4.6	2.4
5618	.1	100	.1	0	2.70	14	4.6	2.4
5619	.1	100	0	0	2.73	13	4.6	2.4
5620	.1	100	0	0	2.73	19	4.6	2.4
5621	.1	100	0	0	2.74	19	4.6	2.4
5622	.1	100	.1	0	2.70	11	4.6	2.4
5623	.1	100	.3	0	2.71	23	4.6	2.4
5624	.1	100	.5	0	2.71	31	4.6	2.4
5625	.1	100	1.9	0	2.73	32	4.5	2.4
5626	.1	100	1.8	0	2.75	27	4.5	2.4
5627	.1	100	.3	0	2.72	30	4.5	2.4
5628	.1	100	4.7	.4	2.83	22	4.5	2.4
5629	.1	100	.3	0	2.81	16	4.5	2.4
5630	.1	100	.6	0	2.72	29	4.5	2.4
5631	.1	100	.1	0	2.75	29	4.4	2.4
5632	.1	100	1.3	0	2.77	32	4.4	2.4
5633	.1	100	2.7	0	2.81	34	4.4	2.4
5634	.1	100	1.9	0	2.88	34	4.4	2.4
5635	.1	100	3.4	0	2.84	32	4.4	2.4
5636	.1	100	3.5	.1	2.80	32	4.3	2.4
5637	.1	100	3.4	.2	2.80	32	4.3	2.4
5638	.1	100	.5	0	2.83	26	4.3	2.4
5639	.1	100	.6	0	2.87	17	4.3	2.4
5640	.1	100	.4	0	2.85	10	4.3	2.4
5641	.1	100	.2	0	2.78	9	4.3	2.4
5642	.1	100	0	0	2.84	0	4.3	2.4
5643	.1	100	0	0	2.87	0	4.3	2.4
5644	.1	100	0	0	2.96	0	4.3	2.4
5645	.1	100	0	0	2.96	0	4.3	2.4
5646	.1	100	0	0	2.97	0	4.3	2.4
5647	.1	100	0	0	2.89	0	4.3	2.4

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SP1 PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5649	.1	100	0	0	2.89	0	4.3	2.4
5650	.1	100	5.6	0	2.83	6	4.3	2.4
5651	.4	100	10.0	1.9	2.86	3	4.2	2.4
5652	26.6	49	19.5	5.2	2.86	0	4.1	2.3
5653	83.3	35	21.5	7.1	2.83	0	3.8	2.2
5654	117.6	38	24.3	7.1	2.83	1	3.6	2.1
5655	41.2	42	20.1	4.0	2.87	10	3.4	1.9
5656	19.4	35	15.6	.5	2.81	12	3.2	1.8
5657	43.3	36	19.0	5.6	2.83	2	3.0	1.7
5658	39.9	44	20.4	6.6	2.85	1	2.8	1.6
5659	12.7	55	17.4	3.8	2.85	8	2.7	1.5
5660	8.0	50	15.1	1.1	2.83	11	2.5	1.4
5661	13.0	49	16.7	3.9	2.85	7	2.3	1.3
5662	.3	100	9.9	.9	2.86	23	2.2	1.3
5663	.2	100	9.2	0	2.86	15	2.1	1.3
5664	.1	100	5.7	0	2.83	28	2.0	1.3
5665	.1	100	1.0	0	2.74	16	1.9	1.3
5666	.1	100	.3	0	2.69	15	1.9	1.3
5667	.1	100	2.1	0	2.71	19	1.9	1.3
5668	.1	100	.4	0	2.71	24	1.9	1.3
5669	.1	100	.4	0	2.72	23	1.9	1.3
5670	.1	100	.7	0	2.69	12	1.9	1.3
5671	.1	100	.8	0	2.72	12	1.9	1.3
5672	.1	100	0	0	2.75	21	1.9	1.3
5673	.1	100	0	0	2.73	26	1.9	1.3
5674	.1	100	.2	0	2.69	40	1.9	1.3
5681	13.4	38	14.9	0	2.86	29	1.8	1.2
5682	91.3	25	19.0	0	2.86	17	1.6	1.1
5683	661.0	16	24.2	0	2.84	2	1.4	1.0
5684	231.9	18	20.4	0	2.78	13	1.2	.8
5685	39.7	23	15.2	0	2.81	28	1.0	.7
5686	10.4	26	11.9	0	2.74	39	.9	.6
5687	246.1	18	20.4	0	2.78	13	.8	.5
5692	24.9	29	15.3	0	2.81	28	.4	.3
5693	204.1	25	22.6	0	2.85	7	.3	.1
5696	.1	100	1.0	0	2.88	44	.1	.1
5697	.3	32	5.9	.4	2.85	26	.1	0
5698	.2	46	6.0	.4	2.85	29	.1	0
5699	.1	100	1.1	0	2.82	48	0	0
5700	.1	100	1.8	0	2.86	43	0	0

Schlumberger

ANALYST: J. F. GROSS 8-SEP-81 11:57:33

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*   SCHLUMBERGER  *
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COMPANY : MARATHON OIL CO.

WELL : TIN CUP MESA #1-25

FIELD : WILDCAT

COUNTRY : USA

REFERENCE : 10066,110230

Schlumberger

ANALYST: J. E. GROSS 8-SEP-81 11:57:34

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*   SCHLUMBERGER  *
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COMPANY : MARATHON OIL CO.

WELL : TIN CUP MESA #1-25

FIELD : WILDCAT

COUNTRY : USA

REFERENCE : 10066,110230

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5000	.1	100	.9	0	2.71	5	13.8	3.9
5001	.1	100	.5	0	2.70	13	13.8	3.9
5002	.1	77	4.3	0	2.72	35	13.7	3.9
5003	.9	47	9.1	0	2.76	35	13.7	3.9
5004	29.8	26	15.2	1.0	2.80	28	13.6	3.8
5005	.1	79	3.4	0	2.70	32	13.4	3.7
5006	.1	100	2.0	0	2.70	20	13.4	3.7
5007	.1	87	4.2	0	2.72	17	13.4	3.7
5008	.1	100	3.1	0	2.70	12	13.4	3.7
5009	.1	100	.2	0	2.70	12	13.3	3.7
5010	.1	100	.1	0	2.75	16	13.3	3.7
5011	.1	100	.1	0	2.75	8	13.3	3.7
5012	.1	100	0	0	2.71	5	13.3	3.7
5013	.1	100	.5	0	2.71	3	13.3	3.7
5014	.1	100	.4	0	2.71	3	13.3	3.7
5015	.1	100	0	0	2.72	4	13.3	3.7
5016	.1	100	0	0	2.73	3	13.3	3.7
5017	.1	100	0	0	2.71	4	13.3	3.7
5018	.1	100	.1	0	2.75	2	13.3	3.7
5019	.1	100	0	0	2.74	1	13.3	3.7
5020	.1	100	0	0	2.73	2	13.3	3.7
5021	.1	100	.5	0	2.71	3	13.3	3.7
5022	.1	100	.1	0	2.71	4	13.3	3.7
5023	.1	100	0	0	2.74	3	13.3	3.7
5024	.1	100	0	0	2.72	7	13.3	3.7
5025	.1	100	0	0	2.71	10	13.3	3.7
5026	.1	100	.9	0	2.72	10	13.3	3.7
5027	.1	100	.5	0	2.70	4	13.3	3.7
5028	.1	100	.2	0	2.71	2	13.3	3.7
5029	.1	100	0	0	2.71	5	13.3	3.7
5030	.1	100	0	0	2.73	5	13.3	3.7
5031	.1	100	.6	0	2.71	4	13.3	3.7
5032	.1	100	.5	0	2.71	9	13.3	3.7
5033	.1	100	0	0	2.73	18	13.3	3.7
5034	.1	100	.1	0	2.71	19	13.3	3.7
5035	.1	100	0	0	2.74	18	13.3	3.7
5036	.1	100	0	0	2.73	20	13.3	3.7
5037	.1	100	0	0	2.75	18	13.3	3.7
5038	.1	100	.8	0	2.70	18	13.3	3.7
5039	.1	100	1.0	0	2.71	16	13.3	3.7
5040	.1	100	2.2	0	2.71	11	13.3	3.7
5041	.1	100	2.3	0	2.70	10	13.2	3.7
5042	.1	100	0	0	2.74	20	13.2	3.7
5043	.1	100	0	0	2.72	19	13.2	3.7
5044	.1	100	0	0	2.72	19	13.2	3.7
5045	.1	100	1.5	0	2.71	14	13.2	3.7
5046	.1	100	2.2	0	2.71	11	13.2	3.7

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5048	.1	100	.5	0	2.71	19	13.2	3.7
5049	.1	100	.4	0	2.70	21	13.2	3.7
5050	.1	100	0	0	2.74	20	13.2	3.7
5051	.1	100	.3	0	2.71	22	13.2	3.7
5052	.1	100	.7	0	2.72	18	13.2	3.7
5053	.1	100	.9	0	2.71	19	13.1	3.7
5054	.1	100	.1	0	2.73	24	13.1	3.7
5055	.1	100	.3	0	2.73	24	13.1	3.7
5056	.1	100	2.0	0	2.71	19	13.1	3.7
5057	.1	100	1.1	0	2.71	20	13.1	3.7
5058	.1	100	1.2	0	2.71	21	13.1	3.7
5059	.1	100	1.7	0	2.69	19	13.1	3.7
5060	.1	100	0	0	2.74	21	13.1	3.7
5061	.1	100	0	0	2.74	21	13.1	3.7
5062	.1	100	0	0	2.71	25	13.1	3.7
5063	.1	100	0	0	2.72	31	13.1	3.7
5064	.1	100	.9	0	2.75	48	13.1	3.7
5065	.1	100	1.4	0	2.70	45	13.1	3.7
5066	.1	100	1.0	0	2.70	40	13.0	3.7
5067	.1	100	1.5	0	2.71	41	13.0	3.7
5068	.1	100	3.1	0	2.70	33	13.0	3.7
5069	.1	100	3.6	0	2.70	25	13.0	3.7
5070	.1	100	2.9	0	2.71	26	13.0	3.7
5071	.1	100	1.3	0	2.71	31	12.9	3.7
5072	.1	100	1.0	0	2.71	38	12.9	3.7
5073	.1	100	1.3	0	2.71	41	12.9	3.7
5074	.1	100	1.0	0	2.71	43	12.9	3.7
5075	.1	100	.8	0	2.70	49	12.9	3.7
5076	.1	100	1.7	0	2.73	49	12.9	3.7
5078	.1	100	.4	0	2.71	40	12.8	3.7
5079	.1	100	0	0	2.72	12	12.8	3.7
5080	.1	100	0	0	2.71	14	12.8	3.7
5081	.1	100	0	0	2.71	12	12.8	3.7
5082	.1	100	0	0	2.73	12	12.8	3.7
5083	.1	100	2.1	0	2.72	12	12.8	3.7
5084	.1	100	1.2	0	2.70	5	12.8	3.7
5085	.1	100	.9	0	2.72	13	12.8	3.7
5086	.1	100	.9	0	2.71	22	12.8	3.7
5087	.1	100	1.2	0	2.70	28	12.8	3.7
5088	.1	100	.5	0	2.76	36	12.8	3.7
5089	.1	100	.1	0	2.76	41	12.8	3.7
5090	.1	100	.3	0	2.79	20	12.8	3.7
5091	.1	100	1.4	.1	2.74	35	12.8	3.7
5092	.1	100	2.7	0	2.73	40	12.7	3.7
5093	.1	100	.3	0	2.70	42	12.7	3.7
5094	.1	100	.7	0	2.70	41	12.7	3.7

Schlumberger

DEPTH FT	PERM MD	S# PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5096	.1	100	.1	0	2.70	41	12.7	3.7
5097	.1	100	1.5	0	2.74	40	12.7	3.7
5098	.1	100	1.1	0	2.70	32	12.7	3.7
5099	.1	100	0	0	2.71	28	12.6	3.7
5100	.1	100	1.2	0	2.70	30	12.6	3.7
5101	.1	100	1.2	0	2.71	34	12.6	3.7
5102	.1	100	1.6	0	2.71	34	12.6	3.7
5103	.1	98	3.9	0	2.70	50	12.6	3.7
5104	.1	100	1.1	0	2.71	49	12.5	3.7
5105	.1	100	0	0	2.72	6	12.5	3.7
5106	.1	100	0	0	2.74	0	12.5	3.7
5107	.1	100	0	0	2.74	0	12.5	3.7
5108	.1	100	.3	0	2.71	7	12.5	3.7
5109	.1	68	4.9	0	2.71	9	12.5	3.7
5110	.1	100	.9	0	2.73	14	12.5	3.7
5111	.1	100	0	0	2.71	5	12.5	3.7
5112	.1	100	0	0	2.73	1	12.5	3.7
5113	.1	100	0	0	2.75	0	12.5	3.7
5114	.1	100	0	0	2.77	0	12.5	3.7
5115	.1	100	0	0	2.77	0	12.5	3.7
5116	.1	100	.2	0	2.72	0	12.5	3.7
5117	.1	100	.3	0	2.72	0	12.5	3.7
5118	.1	100	0	0	2.73	2	12.4	3.7
5119	.1	100	0	0	2.71	6	12.4	3.7
5120	.1	100	2.9	0	2.70	45	12.4	3.7
5121	.1	100	2.8	0	2.75	27	12.4	3.7
5122	.1	100	.5	0	2.70	19	12.4	3.7
5123	.1	100	.1	0	2.70	14	12.4	3.7
5124	.1	100	0	0	2.73	33	12.4	3.7
5125	.1	100	0	0	2.74	38	12.4	3.7
5126	.1	100	.1	0	2.76	37	12.4	3.7
5127	.1	100	0	0	2.72	36	12.4	3.7
5128	.1	100	.6	0	2.71	34	12.4	3.7
5129	.1	100	1.9	0	2.71	28	12.4	3.7
5130	.1	100	.9	0	2.71	31	12.3	3.7
5131	.1	100	.1	0	2.73	37	12.3	3.7
5132	.1	100	1.1	0	2.71	36	12.3	3.7
5133	.1	100	2.6	0	2.70	35	12.3	3.7
5134	.1	100	1.2	0	2.71	41	12.3	3.7
5135	.1	100	.4	0	2.75	46	12.3	3.7
5136	.1	100	.1	0	2.77	38	12.3	3.7
5137	.1	100	1.1	0	2.72	36	12.3	3.7
5138	.1	100	2.3	0	2.71	33	12.3	3.7
5139	.1	100	1.4	0	2.73	37	12.2	3.7
5140	.1	100	1.8	0	2.71	37	12.2	3.7
5141	.1	100	.9	0	2.71	38	12.2	3.7
5142	.1	100	.8	0	2.71	40	12.2	3.7

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5144	.1	100	3.6	0	2.73	42	12.2	3.7
5145	.1	100	1.2	0	2.70	35	12.2	3.7
5150	.1	100	1.7	0	2.69	43	12.1	3.7
5162	.1	100	1.5	0	2.75	19	11.9	3.7
5163	.1	100	.1	0	2.73	5	11.9	3.7
5164	.1	100	0	0	2.77	1	11.9	3.7
5165	.1	100	.1	0	2.77	2	11.9	3.7
5166	.1	100	0	0	2.71	12	11.9	3.7
5167	.1	100	1.6	0	2.70	12	11.9	3.7
5168	.1	100	1.0	0	2.71	25	11.9	3.7
5169	.1	100	.8	0	2.78	37	11.9	3.7
5170	.1	100	1.3	0	2.72	29	11.9	3.7
5171	.1	100	.1	0	2.73	25	11.8	3.7
5172	.1	100	0	0	2.74	27	11.8	3.7
5173	.1	100	0	0	2.71	16	11.8	3.7
5174	.1	100	.1	0	2.75	3	11.8	3.7
5175	.1	100	.1	0	2.75	3	11.8	3.7
5176	.1	100	0	0	2.74	5	11.8	3.7
5177	.1	100	0	0	2.72	14	11.8	3.7
5178	.1	100	.4	0	2.71	13	11.8	3.7
5179	.1	100	.2	0	2.70	13	11.8	3.7
5180	.1	100	.4	0	2.72	14	11.8	3.7
5181	.1	100	1.6	0	2.70	12	11.8	3.7
5182	.1	100	.5	0	2.72	16	11.8	3.7
5183	.1	100	0	0	2.74	17	11.8	3.7
5184	.1	100	0	0	2.73	17	11.8	3.7
5185	.1	100	0	0	2.73	17	11.8	3.7
5186	.1	100	0	0	2.72	16	11.8	3.7
5187	.1	100	1.8	0	2.70	6	11.8	3.7
5188	.1	100	.6	0	2.71	4	11.8	3.7
5189	.1	100	.6	0	2.71	17	11.8	3.7
5190	.1	100	.6	0	2.71	27	11.8	3.7
5191	.1	100	1.5	0	2.71	26	11.8	3.7
5192	.1	100	2.0	0	2.71	19	11.8	3.7
5193	.1	100	1.5	0	2.71	19	11.7	3.7
5194	.1	100	2.6	0	2.71	17	11.7	3.7
5195	.1	100	2.6	0	2.70	15	11.7	3.7
5196	.1	100	1.5	0	2.72	17	11.7	3.7
5197	.1	100	1.1	0	2.70	8	11.7	3.7
5198	.1	100	1.0	0	2.70	7	11.7	3.7
5199	.1	100	1.4	0	2.72	24	11.6	3.7
5200	.1	100	2.9	0	2.70	31	11.6	3.7
5201	.1	100	2.3	0	2.70	37	11.6	3.7
5202	.1	100	.6	0	2.72	43	11.6	3.7
5203	.1	100	1.5	0	2.70	38	11.6	3.7

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5205	.1	100	1.5	0	2.71	38	11.5	3.7
5206	.1	100	2.0	0	2.71	36	11.5	3.7
5207	.1	100	1.3	0	2.71	28	11.5	3.7
5208	.1	100	0	0	2.71	22	11.5	3.7
5209	.1	100	.1	0	2.72	14	11.5	3.7
5210	.1	100	.7	0	2.71	5	11.5	3.7
5211	.1	100	.1	0	2.71	5	11.5	3.7
5212	.1	100	0	0	2.73	4	11.5	3.7
5213	.1	100	0	0	2.71	3	11.5	3.7
5214	.1	100	0	0	2.75	1	11.5	3.7
5215	.1	100	0	0	2.73	2	11.5	3.7
5216	.1	100	.1	0	2.72	2	11.5	3.7
5217	.1	100	0	0	2.73	2	11.5	3.7
5218	.1	100	0	0	2.73	2	11.5	3.7
5219	.1	100	.1	0	2.71	4	11.5	3.7
5220	.1	100	.5	0	2.70	2	11.5	3.7
5221	.1	100	0	0	2.74	1	11.5	3.7
5222	.1	100	0	0	2.76	0	11.5	3.7
5223	.1	100	.1	0	2.72	2	11.5	3.7
5224	.1	100	0	0	2.71	3	11.5	3.7
5225	.1	100	0	0	2.71	3	11.5	3.7
5226	.1	100	.1	0	2.71	2	11.5	3.7
5227	.1	100	0	0	2.76	1	11.5	3.7
5228	.1	98	4.2	0	2.72	17	11.5	3.7
5229	.1	73	4.3	0	2.72	15	11.4	3.7
5230	.1	100	.4	0	2.70	7	11.4	3.6
5231	.1	100	1.0	0	2.71	14	11.4	3.6
5232	.1	100	2.0	0	2.71	21	11.4	3.6
5233	.1	100	3.2	0	2.69	24	11.4	3.6
5234	.1	100	2.3	0	2.71	35	11.3	3.6
5235	.1	100	.1	0	2.71	42	11.3	3.6
5236	.1	100	0	0	2.72	40	11.3	3.6
5237	.1	100	1.9	0	2.71	32	11.3	3.6
5238	.1	100	.7	0	2.71	42	11.3	3.6
5240	.1	100	3.4	0	2.71	40	11.3	3.6
5241	.1	100	1.0	0	2.72	33	11.2	3.6
5242	.1	100	1.9	0	2.74	30	11.2	3.6
5243	.1	100	.8	0	2.69	9	11.2	3.6
5244	.1	100	.6	0	2.71	2	11.2	3.6
5245	.1	100	.1	0	2.71	4	11.2	3.6
5246	.1	100	0	0	2.74	3	11.2	3.6
5247	.1	100	.1	0	2.70	5	11.2	3.6
5248	.1	100	.8	0	2.70	2	11.2	3.6
5249	.1	100	1.0	0	2.70	1	11.2	3.6
5250	.1	100	0	0	2.71	4	11.2	3.6
5251	.1	100	0	0	2.73	3	11.2	3.6

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DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5253	.1	100	.3	0	2.71	3	11.2	3.6
5254	.1	100	.1	0	2.71	3	11.2	3.6
5255	.1	100	0	0	2.72	3	11.2	3.6
5256	.1	100	0	0	2.73	3	11.2	3.6
5257	.1	100	.1	0	2.77	2	11.2	3.6
5258	.1	100	0	0	2.73	5	11.2	3.6
5259	.1	100	0	0	2.71	11	11.2	3.6
5260	.1	100	3.3	0	2.73	46	11.2	3.6
5262	.1	100	3.6	0	2.75	50	11.1	3.6
5263	.1	100	1.2	0	2.70	23	11.0	3.6
5264	.1	100	.1	0	2.74	10	11.0	3.6
5265	.1	100	.1	0	2.75	11	11.0	3.6
5266	.1	100	.2	0	2.78	13	11.0	3.6
5267	.1	100	.1	0	2.76	17	11.0	3.6
5268	.1	100	.4	0	2.71	16	11.0	3.6
5269	.1	100	0	0	2.72	14	11.0	3.6
5270	.1	100	.3	0	2.71	13	11.0	3.6
5271	.1	100	1.0	0	2.71	8	11.0	3.6
5272	.1	100	0	0	2.72	9	11.0	3.6
5273	.1	100	0	0	2.72	12	11.0	3.6
5274	.1	100	0	0	2.73	12	11.0	3.6
5275	.1	100	.7	0	2.70	9	11.0	3.6
5276	.1	100	1.0	0	2.72	5	11.0	3.6
5277	.1	100	1.3	0	2.71	2	11.0	3.6
5278	.1	100	.8	0	2.71	4	11.0	3.6
5279	.1	100	1.3	0	2.72	10	11.0	3.6
5280	.1	100	1.0	0	2.71	12	10.9	3.6
5281	.1	100	1.6	0	2.71	6	10.9	3.6
5282	.1	77	2.2	0	2.70	1	10.9	3.6
5283	.1	91	2.1	0	2.71	5	10.9	3.6
5284	.1	100	.7	0	2.72	10	10.9	3.6
5285	.1	100	1.8	0	2.71	8	10.9	3.6
5286	.1	100	2.3	0	2.72	5	10.8	3.6
5287	.1	100	1.9	0	2.70	3	10.8	3.6
5288	.1	100	.3	0	2.72	15	10.8	3.6
5289	.1	100	.2	0	2.71	23	10.8	3.6
5290	.1	100	2.1	0	2.71	18	10.8	3.6
5291	.1	100	2.6	0	2.70	19	10.8	3.6
5292	.1	100	2.0	0	2.73	28	10.7	3.6
5293	.1	100	2.2	0	2.70	27	10.7	3.6
5294	.1	100	1.8	0	2.71	28	10.7	3.6
5295	.1	100	1.2	0	2.71	34	10.7	3.6
5296	.1	100	.5	0	2.72	37	10.7	3.6
5297	.1	100	1.5	0	2.72	36	10.7	3.6
5298	.1	100	2.0	0	2.72	36	10.7	3.6
5299	.1	100	1.1	0	2.72	39	10.6	3.6

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DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5301	.1	100	2.3	0	2.71	37	10.6	3.6
5302	.1	100	2.8	0	2.73	38	10.6	3.6
5303	.1	100	2.0	0	2.72	40	10.6	3.6
5304	.1	100	2.2	0	2.72	38	10.5	3.6
5305	.1	100	2.3	0	2.72	35	10.5	3.6
5306	.1	73	4.3	0	2.71	29	10.5	3.6
5307	.1	75	4.1	0	2.71	27	10.5	3.6
5308	.1	100	3.1	0	2.70	33	10.4	3.6
5309	.1	100	1.1	0	2.73	48	10.4	3.6
5311	.1	88	3.1	0	2.72	44	10.4	3.6
5312	.1	100	1.8	0	2.70	45	10.3	3.6
5320	.1	100	1.9	0	2.76	48	10.2	3.6
5323	.1	100	.1	0	2.74	31	10.1	3.6
5324	.1	100	0	0	2.71	25	10.1	3.6
5325	.1	100	1.2	0	2.69	22	10.1	3.6
5326	.1	100	2.2	0	2.72	24	10.1	3.6
5327	.1	100	0	0	2.74	4	10.1	3.6
5328	.1	100	0	0	2.88	0	10.1	3.6
5329	.1	100	0	0	2.96	0	10.1	3.6
5330	.1	100	0	0	2.89	0	10.1	3.6
5331	.1	100	0	0	2.89	0	10.1	3.6
5332	.1	100	.1	0	2.81	4	10.1	3.6
5333	.1	87	.8	0	2.77	33	10.1	3.6
5334	.1	100	0	0	2.76	1	10.1	3.6
5335	.1	100	0	0	2.89	0	10.1	3.6
5336	.1	100	0	0	2.88	0	10.1	3.6
5337	.1	100	0	0	2.88	0	10.1	3.6
5338	.1	100	0	0	2.88	0	10.1	3.6
5339	.1	100	0	0	2.89	0	10.1	3.6
5340	.1	100	0	0	2.88	0	10.1	3.6
5341	.1	100	0	0	2.89	0	10.1	3.6
5342	.1	100	0	0	2.88	0	10.1	3.6
5343	.1	100	0	0	2.88	0	10.1	3.6
5344	.1	100	0	0	2.87	0	10.1	3.6
5345	.1	100	1.0	0	2.77	25	10.1	3.6
5346	.1	100	.8	0	2.82	25	10.1	3.6
5347	.1	100	.4	0	2.80	29	10.1	3.6
5348	.1	100	1.0	0	2.75	36	10.1	3.6
5349	.1	100	.1	0	2.71	28	10.1	3.6
5350	.1	100	.5	0	2.70	20	10.1	3.6
5351	.1	100	.3	0	2.71	22	10.1	3.6
5352	.1	100	.2	0	2.79	8	10.0	3.6
5353	.1	100	0	0	2.88	0	10.0	3.6
5354	.1	100	0	0	2.88	0	10.0	3.6

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DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5356	.1	100	0	0	2.87	0	10.0	3.6
5357	.1	100	0	0	2.88	0	10.0	3.6
5358	.1	100	0	0	2.95	0	10.0	3.6
5359	.1	100	0	0	3.00	0	10.0	3.6
5360	.1	100	0	0	3.00	0	10.0	3.6
5361	.1	100	0	0	3.02	0	10.0	3.6
5362	.1	100	0	0	2.99	0	10.0	3.6
5363	.1	100	0	0	2.99	0	10.0	3.6
5364	.1	100	0	0	3.02	0	10.0	3.6
5365	.1	100	0	0	2.99	0	10.0	3.6
5366	.1	100	0	0	2.89	0	10.0	3.6
5367	.1	100	0	0	2.88	0	10.0	3.6
5368	.1	100	0	0	2.88	0	10.0	3.6
5369	.1	100	0	0	2.97	0	10.0	3.6
5370	.1	100	0	0	3.00	0	10.0	3.6
5371	.1	100	0	0	2.99	0	10.0	3.6
5372	.1	100	0	0	2.88	0	10.0	3.6
5373	.1	100	0	0	2.87	0	10.0	3.6
5374	.1	100	0	0	3.01	0	10.0	3.6
5375	.1	100	0	0	3.05	0	10.0	3.6
5376	.1	100	0	0	3.01	0	10.0	3.6
5377	.1	100	0	0	2.97	0	10.0	3.6
5378	.1	100	0	0	2.98	0	10.0	3.6
5379	.1	100	0	0	3.00	0	10.0	3.6
5380	.1	100	0	0	2.97	0	10.0	3.6
5381	.1	100	0	0	2.99	0	10.0	3.6
5382	.1	100	0	0	3.01	0	10.0	3.6
5383	.1	100	0	0	2.99	0	10.0	3.6
5384	.1	100	0	0	2.98	0	10.0	3.6
5385	.1	100	0	0	2.98	0	10.0	3.6
5386	.1	100	0	0	3.00	0	10.0	3.6
5387	.1	100	0	0	2.96	0	10.0	3.6
5388	.1	100	0	0	2.97	0	10.0	3.6
5389	.1	100	0	0	2.99	0	10.0	3.6
5390	.1	100	0	0	2.98	0	10.0	3.6
5391	.1	100	0	0	3.01	0	10.0	3.6
5392	.1	100	0	0	3.00	0	10.0	3.6
5393	.1	100	0	0	3.00	0	10.0	3.6
5394	.1	100	0	0	2.94	0	10.0	3.6
5395	.1	100	0	0	2.93	0	10.0	3.6
5396	.1	100	0	0	2.93	0	10.0	3.6
5397	.1	100	0	0	2.96	0	10.0	3.6
5398	.1	100	0	0	2.99	0	10.0	3.6
5399	.1	100	0	0	3.00	0	10.0	3.6
5400	.1	100	0	0	3.01	0	10.0	3.6
5401	.1	100	0	0	3.01	0	10.0	3.6
5402	.1	100	0	0	2.97	0	10.0	3.6

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DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5404	.1	100	0	0	2.96	0	10.0	3.6
5405	.1	100	0	0	3.01	0	10.0	3.6
5406	.1	100	0	0	2.98	0	10.0	3.6
5407	.1	100	0	0	2.98	0	10.0	3.6
5408	.1	100	0	0	2.96	0	10.0	3.6
5409	.1	100	0	0	2.96	0	10.0	3.6
5410	.1	100	0	0	2.98	0	10.0	3.6
5411	.1	100	0	0	2.91	0	10.0	3.6
5412	.1	100	0	0	2.88	0	10.0	3.6
5413	.1	100	1.0	0	2.87	9	10.0	3.6
5414	.1	100	2.1	.2	2.79	19	10.0	3.6
5415	.1	100	2.8	0	2.83	13	10.0	3.6
5416	.1	100	3.2	.5	2.88	14	10.0	3.6
5417	.1	78	4.0	0	2.85	6	9.9	3.6
5418	.1	66	4.6	.3	2.82	4	9.9	3.6
5419	.1	80	4.8	1.1	2.83	6	9.9	3.6
5420	1.0	57	10.2	2.0	2.81	10	9.8	3.6
5421	4.1	59	13.9	4.3	2.84	1	9.7	3.5
5422	28.9	44	19.0	5.9	2.86	0	9.5	3.4
5423	55.6	45	22.1	7.0	2.89	1	9.3	3.3
5424	3.1	83	13.6	4.0	2.89	2	9.1	3.2
5425	.1	100	5.6	1.0	2.83	0	9.0	3.2
5426	.1	100	0	0	2.80	0	9.0	3.2
5427	.1	100	.1	0	2.77	1	9.0	3.2
5428	.1	100	0	0	2.79	1	9.0	3.2
5429	.1	100	0	0	2.79	0	9.0	3.2
5430	.1	100	.1	0	2.77	2	9.0	3.2
5431	.1	100	.4	0	2.75	4	9.0	3.2
5432	.1	100	1.5	0	2.77	0	9.0	3.2
5433	.1	100	2.9	0	2.79	0	9.0	3.2
5434	.1	100	8.4	.7	2.81	0	8.9	3.2
5435	.8	100	10.9	2.7	2.83	0	8.8	3.2
5436	.1	100	5.7	0	2.81	0	8.7	3.2
5437	.1	98	8.3	1.1	2.77	1	8.7	3.2
5438	.1	100	5.4	0	2.76	0	8.6	3.2
5439	.1	100	2.5	0	2.75	0	8.5	3.2
5440	.1	100	2.8	0	2.75	1	8.5	3.2
5441	.1	100	3.0	0	2.74	3	8.5	3.2
5442	.1	100	1.6	0	2.74	2	8.5	3.2
5443	.1	100	.6	0	2.75	0	8.4	3.2
5444	.1	100	1.2	0	2.72	0	8.4	3.2
5445	.1	100	1.0	0	2.74	1	8.4	3.2
5446	.1	100	1.1	0	2.75	6	8.4	3.2
5447	.1	100	2.2	0	2.74	6	8.4	3.2
5448	.1	100	1.5	0	2.75	3	8.4	3.2
5449	.1	100	1.3	0	2.71	1	8.4	3.2
5450	.1	100	.5	0	2.73	8	8.4	3.2

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5452	.1	100	.7	0	2.75	2	8.3	3.2
5453	.1	100	.4	0	2.73	1	8.3	3.2
5454	.1	100	1.1	0	2.73	3	8.3	3.2
5455	.1	100	4.1	0	2.71	0	8.3	3.2
5456	.1	95	5.7	0	2.72	0	8.3	3.2
5457	.1	100	5.6	0	2.75	3	8.2	3.2
5458	.1	100	5.6	0	2.75	2	8.2	3.2
5459	.1	99	6.5	0	2.71	3	8.1	3.2
5460	.1	82	7.6	0	2.72	0	8.0	3.2
5461	.1	95	6.4	0	2.72	1	8.0	3.2
5462	.1	100	4.6	0	2.72	2	7.9	3.2
5463	.1	100	3.0	0	2.71	1	7.9	3.2
5464	.1	100	3.9	0	2.71	2	7.8	3.2
5465	.1	65	6.3	0	2.69	0	7.8	3.2
5466	.1	90	4.9	0	2.70	1	7.7	3.2
5467	.1	100	3.7	0	2.71	2	7.7	3.2
5468	.1	100	3.6	0	2.71	2	7.6	3.2
5469	.1	76	4.7	0	2.69	0	7.6	3.2
5470	.1	97	4.0	0	2.70	1	7.5	3.2
5471	.1	100	2.7	0	2.71	5	7.5	3.2
5472	.1	100	3.3	0	2.72	6	7.5	3.2
5473	.1	94	3.8	0	2.71	2	7.4	3.2
5474	.1	100	.1	0	2.70	5	7.4	3.2
5475	.1	100	.1	0	2.76	1	7.4	3.2
5476	.1	100	.4	0	2.79	0	7.4	3.2
5477	.1	100	7.1	0	2.81	7	7.4	3.2
5478	.7	100	11.4	.5	2.87	18	7.3	3.2
5479	2.6	95	13.4	2.5	2.85	7	7.2	3.2
5480	.1	99	7.4	0	2.85	0	7.1	3.2
5481	.4	97	10.1	1.9	2.86	10	7.0	3.1
5482	1.0	100	11.6	2.3	2.83	10	6.9	3.1
5483	.3	100	9.6	.9	2.83	0	6.8	3.1
5484	.1	100	3.2	0	2.77	0	6.7	3.1
5485	.1	100	.5	0	2.78	0	6.7	3.1
5486	.1	100	2.0	0	2.78	19	6.7	3.1
5487	.1	100	2.0	.1	2.82	35	6.6	3.1
5488	.1	100	1.5	0	2.86	36	6.6	3.1
5489	.1	100	.1	0	2.87	44	6.6	3.1
5490	.1	100	.7	0	2.86	40	6.6	3.1
5491	.1	62	2.9	.1	2.81	33	6.6	3.1
5492	.1	49	3.7	.2	2.80	31	6.6	3.1
5493	.1	53	3.0	.2	2.76	31	6.5	3.1
5494	.1	63	1.8	.1	2.77	35	6.5	3.1
5495	.1	51	2.6	.1	2.76	33	6.5	3.1
5496	.1	46	3.3	.2	2.77	31	6.5	3.1
5497	.1	60	2.4	0	2.75	29	6.4	3.1
5498	.1	49	3.4	0	2.74	29	6.4	3.0

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5500	.1	51	3.6	.2	2.78	33	6.3	3.0
5501	.1	63	2.5	.1	2.75	35	6.3	3.0
5502	.1	59	2.2	0	2.79	43	6.3	3.0
5503	.1	57	2.6	0	2.79	47	6.3	3.0
5504	.1	56	2.9	0	2.79	47	6.2	3.0
5505	.1	46	4.3	0	2.77	45	6.2	2.9
5506	.1	52	3.3	0	2.80	49	6.2	2.9
5507	.1	49	3.5	0	2.75	44	6.1	2.9
5508	.1	39	4.7	.1	2.73	37	6.1	2.9
5509	.1	48	3.1	0	2.75	42	6.0	2.9
5510	.1	53	2.1	0	2.76	47	6.0	2.9
5511	.1	48	2.6	0	2.78	49	6.0	2.8
5512	.1	47	2.8	0	2.79	48	6.0	2.8
5513	.1	42	3.4	0	2.79	48	5.9	2.8
5514	.1	37	4.2	0	2.76	44	5.9	2.8
5515	.5	26	6.2	0	2.82	44	5.9	2.8
5516	10.9	16	9.8	.1	2.87	40	5.8	2.7
5517	8.8	13	8.4	0	2.82	6	5.7	2.6
5518	.1	100	0	0	2.72	5	5.6	2.6
5519	.1	100	.5	0	2.70	7	5.6	2.6
5520	.1	100	.1	0	2.77	3	5.6	2.6
5521	.1	100	.1	0	2.76	1	5.6	2.6
5522	.1	100	0	0	2.71	5	5.6	2.6
5523	.1	100	.6	0	2.69	3	5.6	2.6
5524	.1	100	0	0	2.74	3	5.6	2.6
5525	.1	100	0	0	2.73	10	5.6	2.6
5526	.1	100	0	0	2.73	17	5.6	2.6
5527	.1	100	0	0	2.74	17	5.6	2.6
5528	.1	100	1.0	0	2.71	17	5.6	2.6
5529	.1	100	1.9	0	2.71	17	5.6	2.6
5530	.1	100	0	0	2.74	23	5.6	2.6
5531	.1	100	0	0	2.75	25	5.6	2.6
5532	.1	100	.1	0	2.77	23	5.6	2.6
5533	.1	100	.3	0	2.86	7	5.6	2.6
5534	.1	100	.5	0	2.84	20	5.6	2.6
5535	.1	100	.4	0	2.87	8	5.6	2.6
5536	.1	100	0	0	3.02	0	5.6	2.6
5537	.1	100	0	0	2.98	0	5.6	2.6
5538	.1	100	0	0	2.88	0	5.6	2.6
5539	.1	100	0	0	2.87	0	5.6	2.6
5540	.1	100	0	0	2.98	0	5.6	2.6
5541	.1	100	0	0	2.97	0	5.6	2.6
5542	.1	100	0	0	2.98	0	5.6	2.6
5543	.1	100	0	0	2.99	0	5.6	2.6
5544	.1	100	0	0	2.96	0	5.6	2.6
5545	.1	100	0	0	2.95	0	5.6	2.6
5546	.1	100	0	0	3.01	0	5.6	2.6

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5548	.1	100	0	0	2.92	0	5.6	2.6
5549	.1	100	0	0	3.00	0	5.6	2.6
5550	.1	100	0	0	3.01	0	5.6	2.6
5551	.1	100	0	0	2.88	0	5.6	2.6
5552	.1	100	0	0	2.88	0	5.6	2.6
5553	.1	100	0	0	2.97	0	5.6	2.6
5554	.1	100	0	0	2.88	0	5.6	2.6
5555	.1	100	0	0	2.88	0	5.6	2.6
5556	.1	100	0	0	2.87	0	5.6	2.6
5557	.1	100	0	0	2.89	0	5.6	2.6
5558	.1	100	.2	0	2.89	4	5.6	2.6
5559	.1	100	2.0	0	2.81	13	5.6	2.6
5560	.1	100	2.1	0	2.85	23	5.5	2.6
5561	.1	100	3.8	0	2.83	24	5.5	2.6
5562	.1	100	4.6	.4	2.80	24	5.5	2.6
5563	.1	100	3.6	.2	2.82	31	5.4	2.6
5564	.1	100	2.6	.1	2.82	34	5.4	2.6
5565	.1	100	1.8	0	2.84	31	5.4	2.6
5566	.1	100	1.1	0	2.78	20	5.3	2.6
5567	.1	100	2.1	0	2.76	26	5.3	2.6
5574	16.8	19	11.5	0	2.85	15	5.0	2.4
5575	.1	100	2.4	0	2.72	12	5.0	2.4
5576	.1	100	2.4	0	2.70	5	4.9	2.4
5577	.1	100	1.4	0	2.71	10	4.9	2.4
5578	.1	100	.5	0	2.70	16	4.9	2.4
5579	.1	100	2.2	0	2.71	16	4.9	2.4
5580	.1	100	3.9	0	2.74	15	4.9	2.4
5581	.1	100	4.4	.3	2.75	19	4.8	2.4
5582	.1	100	4.5	.1	2.79	23	4.8	2.4
5583	.1	100	4.9	.1	2.83	25	4.7	2.4
5584	.1	100	4.1	.1	2.82	32	4.7	2.4
5585	.1	100	1.8	0	2.89	49	4.7	2.4
5586	.1	63	1.8	0	2.87	41	4.6	2.4
5587	.1	100	0	0	2.89	0	4.6	2.4
5588	.1	100	0	0	2.98	0	4.6	2.4
5589	.1	100	0	0	2.95	0	4.6	2.4
5590	.1	100	0	0	2.91	0	4.6	2.4
5591	.1	100	0	0	2.99	0	4.6	2.4
5592	.1	100	0	0	3.00	0	4.6	2.4
5593	.1	100	0	0	2.98	0	4.6	2.4
5594	.1	100	0	0	2.96	0	4.6	2.4
5595	.1	100	0	0	2.97	0	4.6	2.4
5596	.1	100	0	0	2.99	0	4.6	2.4
5597	.1	100	0	0	2.97	0	4.6	2.4
5598	.1	100	0	0	2.99	0	4.6	2.4
5599	.1	100	0	0	3.00	0	4.6	2.4

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5601	.1	100	0	0	2.98	0	4.6	2.4
5602	.1	100	0	0	3.00	0	4.6	2.4
5603	.1	100	0	0	2.87	0	4.6	2.4
5604	.1	100	0	0	2.88	0	4.6	2.4
5605	.1	100	0	0	2.87	0	4.6	2.4
5606	.1	100	0	0	2.89	0	4.6	2.4
5607	.1	100	0	0	2.88	0	4.6	2.4
5608	.1	100	0	0	2.89	0	4.6	2.4
5609	.1	100	.2	0	2.79	12	4.6	2.4
5610	.1	100	.1	0	2.76	6	4.6	2.4
5611	.1	100	.1	0	2.70	6	4.6	2.4
5612	.1	100	.9	0	2.71	21	4.6	2.4
5613	.1	100	1.3	0	2.74	29	4.6	2.4
5614	.1	100	.7	0	2.73	32	4.6	2.4
5615	.1	100	1.6	0	2.74	29	4.6	2.4
5616	.1	100	.4	0	2.72	25	4.6	2.4
5617	.1	100	1.1	0	2.71	22	4.6	2.4
5618	.1	100	.1	0	2.70	14	4.6	2.4
5619	.1	100	0	0	2.73	13	4.6	2.4
5620	.1	100	0	0	2.73	19	4.6	2.4
5621	.1	100	0	0	2.74	19	4.6	2.4
5622	.1	100	.1	0	2.70	11	4.6	2.4
5623	.1	100	.3	0	2.71	23	4.6	2.4
5624	.1	100	.5	0	2.71	31	4.6	2.4
5625	.1	100	1.9	0	2.73	32	4.5	2.4
5626	.1	100	1.8	0	2.75	27	4.5	2.4
5627	.1	100	.3	0	2.72	30	4.5	2.4
5628	.1	100	4.7	.4	2.83	22	4.5	2.4
5629	.1	100	.3	0	2.81	16	4.5	2.4
5630	.1	100	.6	0	2.72	29	4.5	2.4
5631	.1	100	.1	0	2.75	29	4.4	2.4
5632	.1	100	1.3	0	2.77	32	4.4	2.4
5633	.1	100	2.7	0	2.81	34	4.4	2.4
5634	.1	100	1.9	0	2.88	34	4.4	2.4
5635	.1	100	3.4	0	2.84	32	4.4	2.4
5636	.1	100	3.5	.1	2.80	32	4.3	2.4
5637	.1	100	3.4	.2	2.80	32	4.3	2.4
5638	.1	100	.5	0	2.83	26	4.3	2.4
5639	.1	100	.6	0	2.87	17	4.3	2.4
5640	.1	100	.4	0	2.85	10	4.3	2.4
5641	.1	100	.2	0	2.78	9	4.3	2.4
5642	.1	100	0	0	2.84	0	4.3	2.4
5643	.1	100	0	0	2.87	0	4.3	2.4
5644	.1	100	0	0	2.96	0	4.3	2.4
5645	.1	100	0	0	2.96	0	4.3	2.4
5646	.1	100	0	0	2.97	0	4.3	2.4
5647	.1	100	0	0	2.89	0	4.3	2.4

Schlumberger

DEPTH FT	PERM MD	SW PU	PHIE PU	SPI PU	RHG G/C3	VCL PU	I-PHIE FT	I-HY FT
5649	.1	100	0	0	2.89	0	4.3	2.4
5650	.1	100	5.6	0	2.83	6	4.3	2.4
5651	.4	100	10.0	1.9	2.86	3	4.2	2.4
5652	26.6	49	19.5	5.2	2.86	0	4.1	2.3
5653	83.3	35	21.5	7.1	2.83	0	3.8	2.2
5654	117.6	38	24.3	7.1	2.83	1	3.6	2.1
5655	41.2	42	20.1	4.0	2.87	10	3.4	1.9
5656	19.4	35	15.6	.5	2.81	12	3.2	1.8
5657	43.3	36	19.0	5.6	2.83	2	3.0	1.7
5658	39.9	44	20.4	6.6	2.85	1	2.8	1.6
5659	12.7	55	17.4	3.8	2.85	8	2.7	1.5
5660	8.0	50	15.1	1.1	2.83	11	2.5	1.4
5661	13.0	49	16.7	3.9	2.85	7	2.3	1.3
5662	.3	100	9.9	.9	2.86	23	2.2	1.3
5663	.2	100	9.2	0	2.86	15	2.1	1.3
5664	.1	100	5.7	0	2.83	28	2.0	1.3
5665	.1	100	1.0	0	2.74	16	1.9	1.3
5666	.1	100	.3	0	2.69	15	1.9	1.3
5667	.1	100	2.1	0	2.71	19	1.9	1.3
5668	.1	100	.4	0	2.71	24	1.9	1.3
5669	.1	100	.4	0	2.72	23	1.9	1.3
5670	.1	100	.7	0	2.69	12	1.9	1.3
5671	.1	100	.8	0	2.72	12	1.9	1.3
5672	.1	100	0	0	2.75	21	1.9	1.3
5673	.1	100	0	0	2.73	26	1.9	1.3
5674	.1	100	.2	0	2.69	40	1.9	1.3
5681	13.4	38	14.9	0	2.86	29	1.8	1.2
5682	91.3	25	19.0	0	2.86	17	1.6	1.1
5683	661.0	16	24.2	0	2.84	2	1.4	1.0
5684	231.9	18	20.4	0	2.78	13	1.2	.8
5685	39.7	23	15.2	0	2.81	28	1.0	.7
5686	10.4	26	11.9	0	2.74	39	.9	.6
5687	246.1	18	20.4	0	2.78	13	.8	.5
5692	24.9	29	15.3	0	2.81	28	.4	.3
5693	204.1	25	22.6	0	2.85	7	.3	.1
5696	.1	100	1.0	0	2.88	44	.1	.1
5697	.3	32	5.9	.4	2.85	26	.1	0
5698	.2	46	6.0	.4	2.85	29	.1	0
5699	.1	100	1.1	0	2.82	48	0	0
5700	.1	100	1.8	0	2.86	43	0	0

Schlumberger

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Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

RECEIVED
SEP 16 1981
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.)*

PROGRESS REPORT

See Attachments

From: 8/15/81 To: 9/4/81

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

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

SIGNED M E Krugh / A.G. TITLE Drilling Superintendent DATE 9/11/81

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25 WELL HISTORY

8-27-81 RIH W/1-11/16" DECENTRALIZED PERFORATING GUN & PERF 5,652±-5,662± KB, DESERT CREEK FORMATION W/4 JSPF 13 GM CHARGES FOR A TOTAL OF 40 HOLE. OPEN WELL TO TEST SEPARATOR, FTP DROPPED TO 0 PSI, SWI & RU TO FLOW WELL TO TANK. WELL IS SURGING HEAVY SLUGS OF WTR. 1 HR FLOWED 5 BBLS 2% CKL WTR, 1/4" CHOKE, FTP 45# PSI, GAS & SLUGS OF WTR.

8-28-81 TOTAL 24 HR FLOW 12-2/10 BW, 17.35 BO, TOTAL PRODUCTION 17-2/10 BW, 17.35 BO AS OF 6:00 PM 8-27-81.

8-29-81 TOTAL 24 HR FLOW = 0 BW, 14.5 BO, AVG 20 MCFD.

8-30-81 RIG UP NOWSCO, NITROGEN TRUCK, COILED TBG UNIT, & ACID PMP TRUCK, PMPD 500 GAL 15% MSR ACID DOWN COIL TBG, DISPLACE ACID W/N2 DOWN 2-3/8" TBG @ 1/2 BPM & 1,500-3,000 PSI. OPEN WELL TO FLOW TO PIT. FTP DROPPED TO 0 PSI IN 1 HR. OPEN WELL WIDE OPEN TO PIT, WELL STARTED SLUGGING ACID GAS & PARTIALLY SPENT ACID AT 4:45 PM. WELL UNLADED APPROX 8 BBLS. TOTAL 24 HR FLOW = 0 BW, 7.0 BO, AVG 12.5 MCFD.

8-31-81 TOTAL 24 HR PRODUCTION = 0 BW, 26.75 BO, AVG 69 MCFD.

9-1-81 TOTAL 24 HR PRODUCTION = 0 BW, 20.75 BO, AVG 34 MCFD.

9-2-81 TOTAL 24 HR PRODUCTION = 0 BW, 21.25 BO, 29 MCFD AVG.

9-3-81 TOTAL 24 HR PRODUCTION = 0 BW, 10.25 BO, 27 MCFD AVG.

9-4-81 RU HOWCO ACID TRUCKS & WESTERN NITROGEN TRUCKS TO STIMULATE THE DESERT CREEK FORM (5,652±-5,662± KB) W/5,000 GALS 28% HCL CONTAINING 400 SCF/BBL N2. OPENED TO PIT ON 12/64" CHOKE W/2,700# SITP. TOTAL 24 HR PRODUCTION = APPROX 43 BBLS LOAD WTR, 38-3/4 BO, AVG 140 MCFD.

TINCUP MESA #1-25 WELL HISTORY

8-15-81 5,714 MADE 0' IN DESERT CREEK FORMATION. REMARKS: CLEAN OUT FOR LOGS. FIN POH W/DST #2, LD TOOLS, RIH & CIRC & COND MUD, POH, SLM ON TRIP, SLM 5,714' (MADE 5' CORRECTION), LOG RUN #1, DLL, SFL, RUN #2 CNL-FDC, PRESENTLY FIN RUN #2. DST #2 IHP 3,534', IF 376-418 PSI, ISIP 1,025, FF 418-481, FSI 3,344, FHP 3,407, BHT 168°F, RECOVERED 120' GAS CUT MUD, 120' HIGHLY GAS CUT, SLIGHTLY OIL CUT MUD, 90' HUGHLY OIL & GAS CUT MUD, 20' MUD & GAS CUT OIL. SAMPLE CHAMBER 650 ML OIL W/SLIGHT MUD CUT: 1.9 FT3 GAS, PRESS 300 PSI.

8-16-81 5,714' MADE 0' IN DESERT CREEK FORMATION. MW 11.8, VIS 53. REMARKS: CIRC. FIN LOGGING, RIH, BEGIN CIRC, WOO, RUN #3, BHC SONIC, RUN #4 HDP, RUN #5 FULL WAVE FORM SONIC, RUN #6 LSS, LOGGERS TD 5,713'.

8-17-81 5,714' MADE 0' IN DESERT CREEK FORMATION. REMARKS: CIRC & WOO, LD DP, RAN 47 JTS 7" 26# K-55 LT&C 1,947.34', 66 JTS 7" 23# K-55 LT&C 2,761.59', 24 JTS 7" 26# K-55 LT&C 1,019.78'. LANDED @ 5,713.37', STAGE CLR @ 2,965.55'. CIRC CSG 2 HRS, CMT 1ST STAGE W/610 SKS CLASS "B" W/8% HALAD-9, DISPL W/100 BBLS H2O & 124 BBLS MUD. BUMP PLUG W/2,200 PSI.

8-18-81 5,714' MADE 0' IN DESERT CREEK FORMATION. FIN CMT 1ST STAGE OPEN STAGE CLR, CIR 4-1/2 HRS. CMT 2ND STAGE W/385 SKS HOWCO LITE W/18% SALT. CLOSE STAGE CLR, ND, SET SLIPS W/111,000#, NU RECTOR 10" X 3,000# X 7-1/16" 3,000# SPOOL. NU BOP, CHECK RAMS TO 2,100 PSI, OK.

8-19-81 5,714' MADE 0' IN DESERT CREEK FORMATION. RIH W/BIT. DRLD DV CLR 2,961'-2,965'. POH, PU CSG SCRAPER, RIH, TAG @ 5,651', DRLG PLUG @ 5,666', DRLD TO 5,685'. FILL HOLE W/KCL WTR. PRESENTLY RUNNING LOGS.

8-20-81 5,714' MADE 0' IN DESERT CREEK FORMATION. FIN RUNNING CBL GAMA RAY LOGS. VERTICAL SEISMIC PROFILE 5,650'-100'. CBL LOG NOT RECORDED RE-RAN CBL.

8-21-81 5,714' MADE 0' IN DESERT CREEK FORMATION. RIH W/BAKER MODEL "A" 2 LOCKSET PKR W/FL ON & OFF TOOL ON 188 JTS 2-3/5 N-80 EUE 8RD TBG, SET PKR W/TOP @ 5,594' W/6,000# COMP LANDED ON DOUGHNUT. N/D BOPE, N/U TREE. RELEASED RIG @ 6:00 PM 8-20-81

8-22-81 REPAIRED & COMPLETED FENCE AROUND RESERVE PIT.

8-23-81 CLEANED UP LOCATION W/BACKHOE & MAINTAINER.

8-24-81 SD FOR SUNDAY.

8-25-81 HAULED & SET TEST SEPARATOR 2 FRAC TANKS.

8-26-81 COMPLETED TEST SEPARATOR & TANK INSTALLATION. REPAIRED LEAK IN X-MAS TREE.

Well file

Casper Division
Production, U.S. & Canada

Marathon Oil Company

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

3 November 1981

State of Utah
Dept. of Natural Resources
Attn: Mr. Cleon B. Feight
Div. of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Feight:

Marathon Oil Company requests permission to flare gas while pump testing Tin Cup Mesa Well #1-25, located in Sec. 25, T38S, R25E. Presently, this well is flowing with current production of approximately 30 BOPD, 4 BWPD, and 100 MCFD.

Additional pump testing is necessary due to severe problems with salt and paraffin that will require further analysis, and the need for additional reservoir pressure data to determine the feasibility of future prospects in the area.

The gas will need to be flared due to the fact that the nearest pipeline in the area is approximately five miles away in Sec. 33, T37S, R25E.

Thank you for your consideration of this matter.

Very truly yours,

MARATHON OIL COMPANY

Dale Caddy

Dale T. Caddy
District Operations Manager

DTC:ss

Approval to flare is hereby granted until such time as the Board rules otherwise. We intend to ~~that~~ have a meaningful hearing on this matter. C-27 as applicable is attached. Dec 17,

NOV 05 1981

DIVISION OF
OIL, GAS & MINING

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

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

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

PROGRESS REPORT

See Attachments

From: 9-5-81 To: 11-11-81

RECEIVED
NOV 25 1981
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 Krugh TITLE Drilling Superintendent DATE 11-13-81

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25 WELL HISTORY

11-04-81 HOT OIL TRUCK PUMPED 30 BBL FRESH (HOT) WTR DOWN TBG. SION & TRY TO UNLOAD TO TANK

11-05-81 WELL UNLOADED 11 BO, 2 BW THEN DIED.

11-06-81 OPENED TBG TO TANK. TBG BLEW DOWN TO 50# IN 30 MIN. THEN BEGAN UNLOADING OIL & WTR TO TANK BY 2:30 PM WELL HAD FLOWED A TOTAL OF 26 BBLS. SWI.

11-07-81 OPENED TBG TO TANK, FLOWED 21 BO, 1 BW, 10-1/2 HRS. SWI.

11-08-81 OPENED TBG FLOWED 6 HRS, 16 BO, 1 BW. SI. OPENED TBG FLOWED 2 HRS, NO FLUID.

11-09-81 WELL FLOWED 8 HRS. SI 16 HRS, 12 BO, 1-1/2 BW ON 24/64" CHOKE.

11-10-81 COMMULATIVE FLOW TIME-17 HRS. MADE 17 BO & 0 BW.

11-11-81 OPENED TO TANK & MADE 9 BO & 0 BW. RU TEFTELLER WIRELINE SERVICE & RAN 1-1/2" PARAFFIN KNIFE, WHILE FLOWING, TO 5,100' & GOT STUCK. WORKED KNIFE FREE. LANDED TANDEM 360 HR PRESS BOMBS @ 5,000' W/SURF RECORDER. FLOWED WELL & THEN SI F/PRESS BUILD-UP.

TINCUP MESA #1-25 WELL HISTORY

10-13-81 FLOWING WELL FOR CLEANUP. TOTAL BBLS RECOV 670, TBG 80# TO 220#, WELL DIED & DID NOT UNLOAD ANY FLUIDS.

10-14-81 FLOWING WELL FOR CLEANUP. WELL UNLOADING SMALL AMOUNT OF FRAC FLUID.

10-15-81 SWABBED WELL IN. WELL UNLOADING WTR, FRAC FLUIDS, ECT.

10-16-81 TURNED WELL THRU TEST SEP @ 6:00 PM, 10-15-81. IN 12 HRS WELL FLOWED 112 BO, 64 BN, 345 MCFPD W/36/64" CHOKE & 250# .

10-17-81 BW 112, BO 195, MCF 429, 24-1/2 HRS.

10-18-81 BW 37, BO 91, MCF 394, 24 HRS.

10-19-81 BW 20, 67 BO, MCF 225, 22-1/2 HRS.

10-20-81 31 BW, 75 BO, 175 MCF, SEP PRESS 100# IN 24 HRS. TEFTELLER WIRELINE SERV CUT PARAFFIN. FOUND MED TO HEAVY BUILD-UP OF PARAFFIN.

10-21-81 29 BW, 78 BO, 137 MCF, SEP PRESS 85# IN 24 HRS.

10-22-81 26 BW, 68 BO, 121 MCF, SEP PRESS 85# IN 24 HRS.

10-23-81 21 BW, 67 BO, 78 MCF, SEP PRESS 85# IN 24 HRS.

10-24-81 BW 44, 71 BO, 162 MCF, SEP PRESS 80# IN 24 HRS.

10-25-81 94 BW, 141 BO, 480 MCF, SEP PRESS 50# IN 24 HRS.

10-26-81 BW 33, BO 60, 165 MCF, SEP PRESS 50# IN 23 HRS. WELL STARTING HEADING UNLOADING SURGES OF FLUID @ 6:00 AM.

10-27-81 12 BW, 48 BO, 198 MCF, SEP PRESS 50# IN 24 HRS.

10-28-81 14 BW, 38 BO, 128 MCF, SEP PRESS 40# IN 24 HRS.

10-29-81 12 BW, 39 BO, 128 MCF, SEP PRESS 40# IN 24 HRS.

10-30-81 7 BW, 26 BO, 134 MCF, SEP PRESS 40# IN 24 HRS.

10-31-81 BW 9, BO 30, 128 MCF, SEP PRESS 40# IN 24 HRS.

11-01-81 TEFTELLER WIRELINE SERVICE ATTEMPTED TO CUT PARAFFIN, UNABLE TO FIN JOB AS SALT ACCUMULATIONS FELL IN ON THEM & STUCK TOOLS @ 2,500±. THEY WERE ABLE TO WORK TOOLS OUT OF TBG & RD. WILL PUMP WTR DOWN TBS AS SOON AS HOT OIL TRUCK AVAILABLE.

11-02-81 5 BW, 28 BO, 121 MCF, SEP PRESS 40# IN 24 HRS.

11-03-81 4 BW, 21 BO, 87 MCF, SEP PRESS 40# IN 24 HRS.

TINCUP MESA #1-25 WELL HISTORY

9-29-81 SITP 215, OPENED TBG THRU BY BY-PASS LINE TO TANK. WELL DIED DOWN TO 0 THEN MADE SEVERAL SURGES.

9-30-81 SHUT TBG IN UNTIL PRESS BUILDS UP TO 100-150# THEN OPENS TBG TO TANK. WELL WILL SURGE & UNLOAD SMALL AMOUNT OF OIL, BUT WILL NOT CONTINUE TO FLOW.

10-1-81 WELL WILL SURGE & UNLOAD SMALL AMOUNT OF OIL, BUT WILL NOT CONTINUE TO FLOW. WELL WAS HOT OILED.

10-2-81 OPENED TBG TO TANK. WELL WILL NOT UNLOAD.

10-3-81 TBG DEAD, WILL NOT UNLOAD. WELL SERVICE UNIT UNABLE TO REACH LOCATION DUE TO HEAVY RAIN & ROAD CONDITIONS.

10-4-81 STATIC.

10-5-81 SHUT DOWN FOR SUNDAY.

10-6-81 MI & RU FLINT PULLING UNIT. MADE 3 RUNS W/PARAFFIN KNIFE. CHANGED OUT PARAFFIN KNIFE W/SWAB CUPS. MADE 4 SWAB RUNS. WELL FLG TO TANK, 16 HR PRODUCTION 46 BO, 1 BW, INCLUDES SWABBED FLUID.

10-7-81 WELL FLOWING SMALL AMOUNT OF GAS TO TANK, NO OIL. SHUT WELL IN.

10-8-81 OPENED WELL TO TANK. TBG PRESS FELL TO 20#, THEN BEGAN UNLOADING SMALL AMOUNT OF OIL & WTR. (2BBLS). FLOWED 3 BO THEN DIED.

10-9-81 WELL FLOWING SMALL AMOUNT OF GAS, NO OIL. IN 24 HRS, WELL MADE 3 BO.

10-10-81 OPENED TBG TO TANK. BLEW DOWN TO 0 IN 8 MIN. FLOWED SMALL AMOUNT OF GAS & MADE 5 BO IN 2-1/2 HRS.

10-11-81 RU HALLIBURTON TO ACID FRAC. DESERT CREEK PERFORATIONS (5,652'-5,662' KB). ISOLATION TOOL DID NOT HOLD, CALLED FOR NEW PARTS. SDFN.

10-12-81 ACID FRACED DESERT CREEK W/STAGED ACID JOB CONTAINING 30,000 GAL 20% HCL ACID; 16,370 GALLONS GELL; 25,000 GALS 1/2% KCL SPACER. FLOWING WELL FOR CLEAN UP. PRODUCED 278 BBLS FLUID, 1,421 BBLS LOAD TO RECOV..

TINCUP MESA #1-25 WELL HISTORY

9-5-81 TOTAL 24 HR PROD 28 BW (LOAD WTR) 206 BO, AVG 261 MCFD, 87 BBLS LOAD TO RECOVER.

9-6-81 TOTAL 24 HR PRODUCTION-11 BW (LOAD WTR), 136.25 BO, AVG. 299 MCFD, 76 BBLS LOAD TO RECOVER.

9-7-81 TOTAL 24 HR, PRODUCTION 12 BW (LOAD WTR), 113.25 BO, AVG. 405 MCFD, 41 BBLS LOAD TO RECOV.

9-8-81 FLOW TESTING THROUGH SEPERATOR FROM 6 PM 9-6-81 TO 6 PM 9-7-81. TOTAL FLUID PRODUCTION FOR 24 HR PERIOD WAS 10 BW, 71-3/4 BO, & AVG 361 MCFD. 31 BBLS LOAD TO RECOVER.

9-09-81 FLOWING TO SEPERATOR. WAS FLOWED FROM 6 PM(9-7) TO 7:30. WELL WAS DOWN 1-1/2 HRS TO RE-ROUTE FLOW LINES. RE-OPENED WELL TO SEP & FLOWED TILL 6 PM (9-8). WELL PROD 67 BO, 6 BW IN 22-1/2 HRS, AVG MCF RATE 140 PER DAY.

9-10-81 AVERAGE TP 150, SEP PRESS 95, CHOKE 18/64", MCF 100, 88 BO, 7BW, 22-1/2 HRS. TEFTELLER WIRELINE SERVICE CUT PARAFFIN IN TBG, FOUND HEAVY PARAFFIN BUILDUP.

9-11-81 AVERAGE TP 140, SEP PRESS 95, CHOKE 18/64", MCF 100, 39 BO, 11 BW, 21 HRS. WSI @ 3:00 PM W/INSTRUMENTS DOWN HOLE ON WIRELINE.

9-12-81
9-17-81 SI W/INSTRUMENTS DOWNHOLE ON WIRELINE.

9-18-81 SI INSTRUMENTS TO HAVE BEEN PULLED OUT OF TBG.

9-19-81 UNABLE TO PULL INSTRUMENTS OUT OF HOLE. TURNED WELL ON THRU TEST SEP WHILE PULLING W/WIRELINE UNIT. INSTRUMENTS DID NOT PULL FREE.

9-20-81 MCF 275, BO 179, BW 12, 27 HRS.

9-21-81 TP 100, SEP PRESS 80, CHOKE 48/64", MCF 191, BO 52, BW 4, 24 HRS.

9-22-81 TP 125, SEP PRESS 80, CHOKE 48/64", MCF 108, 40 BO, 3 BW, 24 HRS.

9-23-81 RU HOT OIL TRUCK, PMPD 25 BBLS HOT FRESH WTR DOW TBG, FOLLOWED BY 10 BBLS COLD WTR. TRIED TO WORK & PULL INSTRUMENTS UP HOLE W/WIRELINE UNIT, ISTRUMENTS WOULD NOT MOVE.

9-24-81 SI, WAITING ON WORKOVER UNIT.

9-25-81 RIGGED UP DRAKE #24 COMPLETION UNIT. PUMPED TOTAL OF 28 BBLS FRESH WTR DOWN TBG. PULLED 16,500# ON TBG WHEN BOMBS RELEASED. POH W/BOMBS.

9-28-81 RELEASED & RESET PKR W/8,000# COMPRESSION. LANDED DONUT PRESS TEST ANNULUS TO 1,525 PSI. RU TO SWAB, UNABLE TO SWAB PAST 500'. POH, FOUND PARAFFIN WEDGED BETWEEN CUPS. PMPD 50 GAL. RIH W/SINKER BAR, NO PROB. RIH W/SWAB, MADE IT TO APPROX 700'. FOUND SINKER BAR & SWAB CUP COVERED W/PARAFFIN. RD DRAKE #24, SWI.

9-27-81 MOVED OUT DRAKE #24.

9-28-81 OPENED TBG TO PIT, BLEW DOWN TO 0 IN 10 MIN. DID NOT UNLOAD ANY FLUIDS.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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
DEC 23 1981
DIVISION OF
OIL, GAS & MINING

PROGRESS REPORT

See Attachments

From: 11-12-81 To: 12-3-81

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

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

SIGNED M E Kugh TITLE Drilling Superintendent DATE 12-7-81

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25 WELL HISTORY

11-12-81 RIGGED UP WIRELINE SERVICE & RAN 1-1/2" PARAFFIN KNIFE, GOT STUCK, WORKED KNIFE FREE. LANDED PRESS BOMBS @ 5,000' W/SURF RECORDER. FLOWED WELL & THEN SI FOR PRESS BUILD-UP.

11-13-81 SI FOR PRESS BUILD-UP.

11-14-81 SI F/PRESS BUILD-UP.

11-15-81 SI F/PRESS BUILD-UP W/BOMBS DOWNHOLE.

11-16-81 SI F/PRESS BUILD-UP.

11-17-81 SI.

11-18-81 SI.

11-19-81 SI.

TINCUP MESA #1-25 WELL HISTORY

11-20-81
11-25-81 SI W/INSTRUMENTS DOWNHOLE.

11-26-81 TEFTELLER WL SERVICE PULLES INST OUT OF WELL & CHECKED THEM. PRESS STILL BUILDING, RUN INSTR BACK IN WELL FOR 7 MORE DAYS BUILDUP.

11-27-81
12-02-81 SI W/INSTR DOWNHOLE.

12-03-81 TEFTELLER WL SERVICE PULLED INSTR OUT OF WELL BOP STILL BUILDING. RAN INSTR BACK IN WELL, WILL PULL THEM & OBTAIN READINGS IN 7 MORE DAYS. PRESS READINGS (11-25-81) SURF 850, BOP 997; (12-2-81) SURF 928, BOP 1,088.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

PROGRESS REPORT

See Attachments

From: 12-4-81 To: 12-18-81

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

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

SIGNED M E Krugh TITLE Drilling Superintendent DATE 1-6-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

11-25-81 SI W/INSTRUMENTS DOWNHOLE.

11-26-81 TEFTELLER WL SERVICE PULL INST OUT OF WELL & CHECKED THEM. PRESS STILL BUILDING, RUN INSTR BACK IN WELL FOR 7 MORE DAYS BUILDUP.

11-27-81
12-02-81 SI W/INSTR DOWNHOLE.

12-03-81 TEFTELLER WL SERVICE PULLED INSTR OUT OF WELL BOP STILL BUILDING. RAN INSTR BACK IN WELL, WILL PULL THEM & OBTAIN READINGS IN 7 MORE DAYS. PRESS READINGS (11-25-81) SURF 850, BOP 997; (12-2-81) SURF 928, BOP 1,088.

12-04-81 WSI.

12-08-81 WSI W/INSTRUMENTS DOWNHOLE.

12-09-81 WSI W/INSTRU DOWNHOLE.

12-10-81 TEFTELLER WL SERVICE PULLED INSTRU OUT OF WELL, OBSERVED SITP 965#. WELL TURNED THRU TEST SEP @ 12:30 PM, CHOKE 15/64", SEP PRESS 200#. WELL BEGAN UNLOADING FLUID AFTER 3-1/2 HRS.

12-11-81 TP 200, CHOKE 15/64", 58 BO, 17 BW, MCF 153, SEP PRESS 200# IN 24 HRS.

12-12-81 FTP 200 PSI, 15/64" CHOKE, 200 PSI SEP PRESS, 52 MCFD, 13 BO, 0 BW IN 24 HR.

12-13-81 FTP 320 PSI, 17/64" CHOKE, 175 PSI SEP PRESS, 147 MCFD, 16 BO, 1 BW IN 24 HR.

12-14-81 FTP 180 PSI, 17/64" CHOKE, 175 PSI SEP PRESS, 123 MCFD, 10 BO, 0 BW IN 24 HR.

12-15-81 FTP 220 PSI, 17/64" CHOKE, 175 PSI SEP PRESS, 123 MCFD, 14 BO, 0 BW IN 24 HR.

12-16-81 FTP 180 PSI, 17/64" CHOKE, 175 PSI SEP PRESS, 123 MCFD, 10 BO, 0 BW IN 24 HR.

12-17-81 FTP 180 PSI, 17/64" CHOKE, 175 PSI SEP PRESS, 123 MCFD, 6 BO, 0 BW, 24 HR.

12-18-81 FTP 140 PSI, 17/64" CHOKE, 140 PSI SEP PRESS, 111 MCFD, 6 BO, 0 BW IN 24 HR.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

2

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 [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

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

RECEIVED
FEB 09 1982
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.)*

PROGRESS REPORT

See Attachments

From: 1-16-82 To: 2-2-82

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

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

SIGNED M E Krugh/ATL TITLE Drilling Superintendent DATE 2-3-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

1-16-82/
1-20-82 STATIC, SI.

1-21-82 STATIC, SI.

1-22-82/
1-26-82 SI.

1-27-82 SI.

1-28-82 SI.

1-29-82 SI, WOO.

1-30-82/
2-1-82 SI.

2-2-82 WSI.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

2

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 [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

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

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) Please see below		

(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
FEB 22 1982
DIVISION OF OIL, GAS & MINING

PROGRESS REPORT

See Attachments

From: 1-15-82 To: 2-12-82

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

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

SIGNED M E Kurgh TITLE Drilling Superintendent DATE 2-16-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

1-15-82 STATIC, SI.

1-20-82 STATIC, SI.

1-21-82 STATIC, SI.

1-22-82/
1-26-82 SI.

1-27-82 SI.

1-28-82 SI.

1-29-82 SI, WOO.

1-30-82/
2-1-82 SI.

2-2-82 WSI.
2-3-82 SI.

2-4-82 SI.

2-5-82 SI.

2-6-82 SI.

2-7-82 SI.

2-8-82 SI.

2-9-82 SI.

2-10-82 SI.

2-11-82 SI.

2-12-82 SI.

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

RECEIVED
MAR 05 1982
DIVISION OF
OIL, GAS & MINING

February 22, 1982

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

Re: Well No. Tin Cup Mesa #1-25
Sec. 25, T. 38S, R. 25E
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
Clerk Typist

Cari: Please see attached —

West Moe

Thanks

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well ☐ gas well ☐ other Completion Stage
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: 1,950' FNL & 790' FWL
   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.: 1-25
10. FIELD OR WILDCAT NAME: Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 25, T38S, R25E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah
14. API NO.: 43-037-30690
15. ELEVATIONS (SHOW DF, KDB, AND WD): 4,985' GL, 4,999' 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	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Please see below		

RECEIVED
MAR 05 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.)*

Present: Testing of the Desert Creek Formation was temporarily discontinued on 1-8-82. A plug, Baker Model W, was set in the tubing. The tree valves were shut and padlocks installed.

Proposed: We propose to perforating and testing the Honaker Trail formation for productive potential. A retrievable bridge plug will be set above the presently open Desert Creek formation and the 12' of potential zone in the Honaker Trail will be perforated in acid, swab/flow tested, and BHP surveys will be run. If all completion data warrants, an additional stimulation may be proposed at a later time.

This proposed work is scheduled to be started on March 8, 1982.

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

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

SIGNED [signature] TITLE District Operations Manager DATE February 26, 1982

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

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4,985' GL

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SHOOT OR ACIDIZE	[ ]	[ ]
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PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) Please see below		

RECEIVED
MAR 08 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.)*

PROGRESS REPORT

See Attachments

From: 2-13-82 To: 2-26-82

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

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

SIGNED M E Krugh TITLE Drilling Superintendent DATE 3-1-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

INCUP MESA #1-25

2-13-82/
2-26-82 SI.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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REPAIR WELL	☐	☐
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MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Please see below		

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PROGRESS REPORT

See Attachments

From: 2-12-82 To: 3-5-82

RECEIVED
MAR 15 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 M E Krugh TITLE Drilling Superintendent DATE 3-10-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

2-12-82 SI.

2-13-82/
3-5-82 SI.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

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GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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Sec. 25, T38S, R25E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

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TEST WATER SHUT-OFF	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
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PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) Please see below		

RECEIVED
APR 02 1982
DIVISION OF
OIL, GAS & MINING

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PROGRESS REPORT

See Attachments

From: 3-6-82 To: 3-19-82

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

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

SIGNED ME Krugh TITLE Drilling Superintendent DATE 3-26-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINSUP MESA #1-25

2-3-82 SI.

2-4-82 SI.

2-5-82 SI.

2-6-82 SI.

2-7-82 SI.

2-8-82 SI.

2-9-82 SI.

2-10-82 SI.

2-11-82 SI.

2-12-82 SI.

2-13-82/
3-9-82 SI.

3-10-82 SI. PREPARING TO MOVE WORKOVER UNIT ON LOCATION 3-11-82.

3-11-82 SI. WORKOVER UNIT MOVING ON LOCATION.

3-12-82 MOVED DRAKE RIG #19 ON LOCATION RIGGED UP. INSTALLED BOP'S. TP 1,025#, CP 1,125#, BLEW TBG DOWN, SDFN.

3-13-82 MADE 2 ATTEMPTS TO RETRIEVE CHOKE. POH. RUN BACK IN HOLE W/RETRIEVING TOOL. POH W/CHOKE. TRIED TO RELEASE PKR IT APPEARED ON-OFF TOOL WAS NOT WORKING PROPERLY. POH W/2-3/8" 4.7#, N-80 EUE TBG & ON-OFF TOOL W/9" OF 2' N-80 SUB (SUB PARTED). FISH CONSISTS OF ABOUT 9", N-80, SUB 2-3/8", 5"- 2-7/8" PIN & 2-3/8" BOX; COMBINATION SUB (3-3/8" OD), 2-7/8" COLLAR (3.688" OD), BAKER MODEL "A-2" LOK-SET PKR, 2-7/8" 6' J-55 SUB BELOW PKR, 2-7/8" TBG COLLAR, 2-3/8" N-80, JTS 9-18 (ON BOTTOM), BENT BAD ENOUGH TO BE REPLACED.

3-14-82 STATIC. PREPARING TO FISH PKR.

3-15-82 STATIC. SDFS.

3-16-82 RIH W/SKIRTED MILL. TAGGED FISH @ 5,584'. MILLED ON REMAINDER OF 2' SUB, APPROX 4".

3-17-82 MILLED APPROX 3". POH. RIH W/SHORT CATCHOVER SHOT W/EXTENSION. RECOVERED 100% OF FISH.

TINCUP MESA #1-25

3-18-82 RAN SCRAPER TO 5,255' KB. RIH W/BAKER MODEL "G" RBP, ON-OFF TOOL, 1 JT 2-3/8" TBG, BAKER MODEL "R" DOUBLE GRIP PKR ON 173 JTS 2-3/8" TBG. RBP SET @ 5,197' KB. SET PKR @ 5,140'. TBG WOULD NOT PRESS UP. RIH W/2 JTS TBG. TAGGED RBP 4' LOWER. RBP NOT SETTING PROPERLY. WORKED W/RBP, WOULD NOT SET.

3-19-82 POH W/2-3/8", BAKER MODEL "R" DBL GRIP PKR 1 JT, ON-OFF TOOL & BAKER MODEL "G" RBP. RIH W/NEW RBP (MODEL "G") NEW ON-OFF TOOL, 1 JT, DBL GRIP PKR & 172 JTS 2-3/8" TBG. SET RBP @ 5,195' KB. SET PKR @ 5,093' KB. PRESS UP 3,000#. HELD F/15 MIN. RELEASED PKR & FILLED HOLE W/2% KCL. PRESS UP TO 500#. HELD 5 MIN. CIRC DOWN 250# SAND W/10 BBLS & DISPLACED W/8 BBLS.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

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15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) Please see below		

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

RECEIVED
APR 28 1982
OIL, GAS & MINING DIVISION

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.)*

PROGRESS REPORT

See Attachments

From: 3-27-82 To: 4-3-82

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

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

SIGNED M E Krugh TITLE Drilling Superintendent DATE 4-26-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25 WELL HISTORY

3-27-82 FLOW TESTED HONAKER TRAIL PERFS (5,152'-5,162' KB). FLARED TO PIT THRU 12/64" CHOKE. FTP VARIED BETWEEN 100-200 PSI. FLOW CONSISTED OF 1/4" STREAM OF SPENT ACID & ACID GAS.

3-28-82 FLOWED TO PIT, SWI F/1 HR. PRESSURE BUILT TO 450 PSI. OPEN TO PIT WITHOUT CHOKE, BLEW DOWN IN 15 MIN. SWABBED.

3-29-82 STATIC.

3-30-82 LOCATION CLEANED UP & DAMAGED TBG HAULED TO FARM.

3-31-82 SI. "W" CHOKE WILL BE SET DOWNHOLE IN TBG & XMAS, WILL BE CHAINED & LOCKED FOR TEMPORARY ABANDONMENT.

4-1-82 TEFTELLER WIRELINE SERVICE SET "W" CHOKE DOWNHOLE IN TBG; XMAS TREE CHAINED & LOCKED FOR TEMPORARY ABANDONMENT.

4-2-82 WSI. TEMPORARILY ABANDONED.

4-3-82 WSI. TEMPORARILY ABANDONED. WILL DROP FROM REPORT UNTIL WORK IS RESUMED.

FLUID SAMPLE DATA

Sampler Pressure 26 P.S.I.G. at Surface

Recovery: Cu. Ft. Gas Slight smell

cc. Oil 0

cc. Water 0

cc. Mud 1300

Tot. Liquid cc. 1300

Gravity ____ ° API @ ____ °F.

Gas/Oil Ratio ____ cu. ft./bbl.

		RESISTIVITY				CHLORIDE CONTENT
Recovery ~~Water~~ Mud	TOP	1.77	@	90	°F.	____ ppm
Recovery Mud	MID.	1.77	@	88	°F.	____ ppm
Recovery Mud Filtrate	BOTT.	1.79	@	88	°F.	____ ppm
Mud Pit Sample		1.78	@	88	°F.	____ ppm
~~Mud Pit~~ Sample ~~Filtrate~~	SAMPLER	1.79	@	79	°F.	____ ppm

Mud Weight 11.7 vis 51 sec.

Date 8-10-81 Ticket Number 981386

Kind of D.S.T. OPEN HOLE Halliburton Location FARMINGTON

Tester MR. ROCKOS Witness MR. WHITLOCK

Drilling Contractor ENERGY DRILLING COMPANY RIG #1 DR bc

EQUIPMENT & HOLE DATA

Formation Tested Hogan Weep

Elevation ____ Ft.

Net Productive Interval 14' Ft.

All Depths Measured From Kelly Bushing AGL

Total Depth 5518' Ft.

Main Hole/Casing Size 8 3/4"

Drill Collar Length 497' I.D. 2.25"

Drill Pipe Length 4888' I.D. 3.826"

Packer Depth(s) 5414' - 5420' Ft.

Depth Tester Valve 5393' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve Surface Choke 1/8" BH Bottom Choke .75"

Recovered 559 Feet of Drilling fluid with a very small amount of gas bubbles

Recovered Feet of

Recovered Feet of

Recovered Feet of

Recovered Feet of

Mea. From Tester Valve

Remarks SEE PRODUCTION TEST DATA SHEET.

*See attached special reading sheets.

RECEIVED MAY 12 1982 DIVISION OF OIL, GAS & MINING

TEMPERATURE	Gauge No. 2033 Depth: 5398' Ft.	Gauge No. 2032 Depth: 5514' Ft.	Gauge No. Depth: Ft.	TIME (00:00-24:00 hrs.)
	24 Hour Clock	24 Hour Clock	Hour Clock	Tool Opened 1102
Est. °F.	Blanked Off No	Blanked Off Yes	Blanked Off	Opened Bypass 1747
Actual 132 °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		3368.8	3253.5	3289.6	3342.6			—	—
First Period Flow	Initial	106.2	23.1	53.4	96.3			14	*
	Final	159.2	107.1	93.4	171.0			31	*
	Closed in	1985.4	1943.0	1947.8	1998.1			—	—
Second Period Flow	Initial	199.0	133.5	120.0	212.7			123	*
	Final	371.4	324.8	320.0	379.8			237	*
	Closed in	1985.4	1941.4	1921.0	1993.8			—	—
Third Period Flow	Initial								
	Final								
	Closed in								
Final Hydrostatic		3329.0	3274.9	3262.8	3339.1			—	—

Legal Location Sec. - Twp. - Rng. 25 - 38S - 25E

Lease Name TIN CUP MESA

Well No. 1-25

Test No. 1

Field Area WILDCAT

Tested Interval 5420' - 5518'

County SAN JUAN

State UTAH

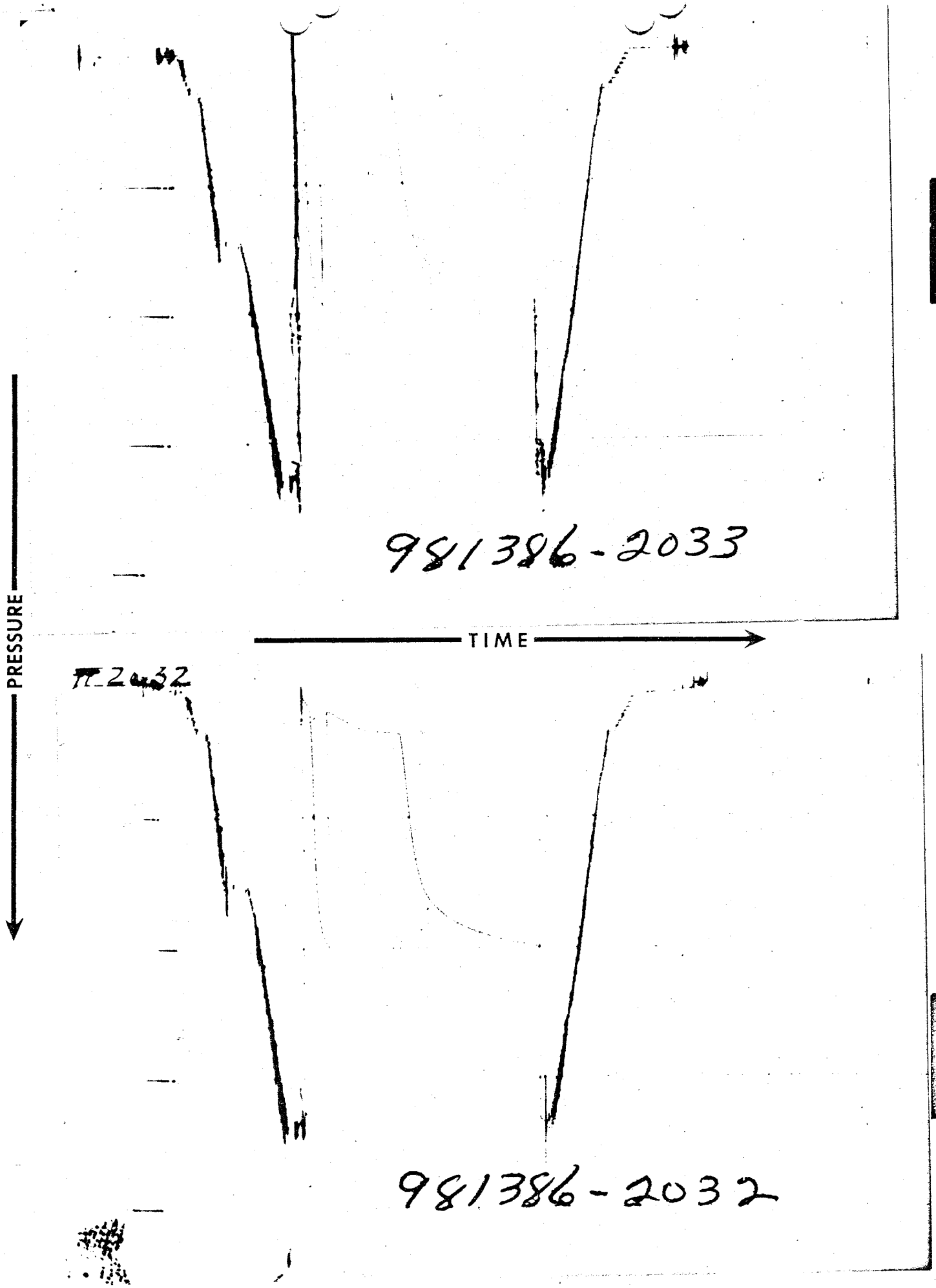
Lease Owner/Company Name MARATHON OIL COMPANY

FORM 181—R2 — PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S

7



Each Horizontal Line Equal to 1000 p.s.i.

981386

Casing perfs. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. _____

Gas gravity _____ Oil gravity _____ GOR _____

Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date 8-9-81 Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
2145					On location, drilling core sample,
~~8-10-81~~					~~approximately 1-1½ hours drilling~~
0000					Started in hole with test tool
0745					Tool made up, ran drill pipe
0[illegible]5					Rig broke down
[illegible]5					STarted in hole again
[illegible]2					Packer set for first flow
[illegible]05					Weak blow, 1" in bucket
[illegible]10					Continued weak blow, approximately 2"
[illegible]15					Weak blow, 3" in bucket
[illegible]16					Closed tool
[illegible]7					Opened tool with a weak blow throughout
1[illegible]00					Weak blow
1230					WEak blow, 5" in bucket
1300					Weak blow, 7" in bucket
1330					Weak blow, 9" in bucket
1350					Closed tool
1747					Released packers. Recovered 559' of
1830					~~water at circulating sub~~ Very heavy mud in stand above sampler
1845					Retreived samples from sampler
~~8-11-81~~ 0130					Job completed

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PRODUCTION TEST DATA

LITTLE'S

7

MARATHON OIL COMPANY

Lease Owner/Company Name

981386

Ticket Number

B.T. 2033 B.T. 2032 B.T.

Depth 5398' Depth 5514' Depth

INITIAL FLOW

Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr	Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr	Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0		23.1	0		96.3			
3		36.0	3		113.5			
6		58.9	6		133.2			
9		76.8	9		148.9			
12		93.1	12		164.2			
15.0		107.1	14.3		171.0			
INITIAL CLOSED IN PRESSURE								
0		107.1	0		171.0			
3		711.0	3		563.6			
6		1399.5	6		1380.3			
9		1611.4	9		1648.2			
12		1727.5	12		1768.2			
15		1803.2	15		1858.2			
18		1852.5	18		1906.9			
21		1889.7	21		1939.5			
24		1915.3	24		1967.6			
27		1935.9	27		1989.1			
28.0		1943.0	28.5		1998.1			
SECOND FLOW								
0		133.5	0		212.7			
20		192.0	20		250.8			
40		244.8	40		300.1			
60		286.4	60		343.8			
80		303.7	80		359.9			
100		312.4	100		366.9			
120		322.7	120		377.1			
124.7		324.8	125.8		379.8			

Remarks:

7

MARATHON OIL COMPANY

Lease Owner/Company Name

981386

Ticket Number

B.T. 2033 B.T. 2032 B.T. _____

Depth 5398' Depth 5514' Depth _____

SECOND CLOSED IN PRESSURE

Time (minutes)	Log $\frac{t+t}{t}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+t}{t}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+t}{t}$	PSIG Temp. Corr.
0		324.8	0		379.8			
10		746.9	10		790.1			
20		1173.3	20		1219.4			
30		1394.9	30		1443.3			
40		1525.6	40		1577.1			
50		1594.9	50		1646.8			
60		1645.8	60		1697.7			
70		1687.7	70		1737.8			
80		1720.8	80		1771.5			
90		1748.9	90		1799.9			
100		1772.9	100		1825.2			
110		1794.5	110		1847.1			
120		1813.5	120		1866.6			
130		1830.3	130		1883.7			
140		1845.2	140		1898.3			
150		1860.5	150		1911.9			
160		1873.3	160		1925.2			
170		1884.5	170		1937.8			
180		1895.8	180		1947.3			
190		1905.0	190		1956.8			
200		1914.2	200		1966.2			
210		1922.5	210		1975.2			
220		1930.0	220		1981.8			
230		1936.6	230		1989.7			
236.8		1941.4	236.8		1993.8			

Remarks: _____

B0-2860

7

TICKET NO. 981386

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
~~Reversing Sub~~ Circulating Sub	6"	3"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	4888'	
Drill Collars	6¼"	2.25"	497'	
Handling Sub & Choke Assembly				
~~Dual CIP Valve~~ X over	6"	3"	1'	
Dual CIP Sampler	5"	.87"	7'	5386'
Hydro-Spring Tester	5"	.75"	6'	5393'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2¼"	4'	5398'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	1.53"	6'	5414'
Distributor				
Packer Assembly	7 3/4"	1.53"	6'	5420'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6¼"	2¼"	62'	
Flush Joint Anchor	5 3/4"	3"	28'	
Blanked-Off B.T. Running Case	5 3/4"	-	4'	5514'
Total Depth				5518'

EQUIPMENT DATA

FLUID SAMPLE DATA

Date	8-13-81
Ticket Number	728093
Kind of D.S.T.	OPEN HOLE
Halliburton Location	FARMINGTON
Tester	DELL GUNN
Witness	-
Drilling Contractor	ENERGY SEARCH RIG # 1

Sampler Pressure 300 P.S.I.G. at Surface

Recovery: Cu. Ft. Gas 1.9

cc. Oil 650' Mud Cut

cc. Water

cc. Mud

Tot. Liquid cc.

Gravity ° API @ °F.

Gas/Oil Ratio cu. ft./bbl.

		RESISTIVITY		CHLORIDE CONTENT
Recovery ~~Water~~	MIDDLE	.9 @ 78 °F.		3030 ppm
Recovery Mud	TOP	6.1 @ 82 °F.		424 ppm
Recovery ~~Mud Pit Sample~~	BOTTOM	.93 @ 78 °F.		3030 ppm
Mud Pit Sample		3.7 @ 88 °F.		606 ppm
Mud Pit Sample ~~Filtrate~~		- @ 78 °F.		ppm

Mud Weight 11.4 vis 47-50 sec.

EQUIPMENT & HOLE DATA

Formation Tested	Desert Creek
Elevation	4935' Ft.
Net Productive Interval	- Ft.
All Depths Measured From	4999' - K.B.
Total Depth	5702' Ft.
Main Hole/Casing Size	8.75"
Drill Collar Length	248' I.D. 2.25"
Drill Pipe Length	5246' I.D. 3.826"
Packer Depth(s)	5524' - 5530' Ft.
Depth Tester Valve	5507' Ft.

Cushion TYPE NONE AMOUNT Ft. Depth Back Pres. Valve 5500' Surface Choke BUBBLE HOSE & 3/4" ADJ. Bottom Choke .75"

Mea. From Tester Valve

Recovered	120'	Feet of	gas cut mud
Recovered	120'	Feet of	heavily gas cut, slightly oil cut mud
Recovered	90'	Feet of	heavily oil and gas cut mud
Recovered	20'	Feet of	mud and gas cut oil
Recovered		Feet of	

Remarks SEE PRODUCTION TEST DATA SHEET...

* SEE ATTACHED SHEET FOR INCREMENTAL READINGS...

TEMPERATURE	Gauge No. 105	Gauge No. 1475	Gauge No.	TIME (00:00-24:00 hrs.)
	Depth: 5509' Ft.	Depth: 5699' Ft.	Depth: Ft.	
	12 Hour Clock	24 Hour Clock	Hour Clock	Tool Opened 1308
Est. °F.	Blanked Off NO	Blanked Off YES	Blanked Off	
Actual °F.	Pressures	Pressures	Pressures	Opened Bypass 1958

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		3414	3435.9	3534	3539.5				
First Period Flow	Initial	211	357.3	376	359.4			—	—
	Final	337	238.9	418	361.7			15	*
	Closed in	927	901.3	1025	1002.7			30	*
Second Period Flow	Initial	463	524.4	413	575.1			—	—
	Final	463	454.3	431	490.0			120	*
	Closed in	3245	3227.9	3344	3349.8			245	*
Third Period Flow	Initial							—	—
	Final								
	Closed in								
Final Hydrostatic		CHART TIME EXPIRED.		3407	3462.4			—	—

Legal Location Sec. - Twp. - Rng. 25 - 38S - 25E

Lease Name TIN CUP MESA

Well No. 1-25

Test No. 2

Tested Interval 5530' - 5702' (172')

Field Area WILDCAT

County SAN JUAN

State UTAH

Lease Owner/Company Name MARATHON OIL COMPANY

FORM 181-R2 - PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S

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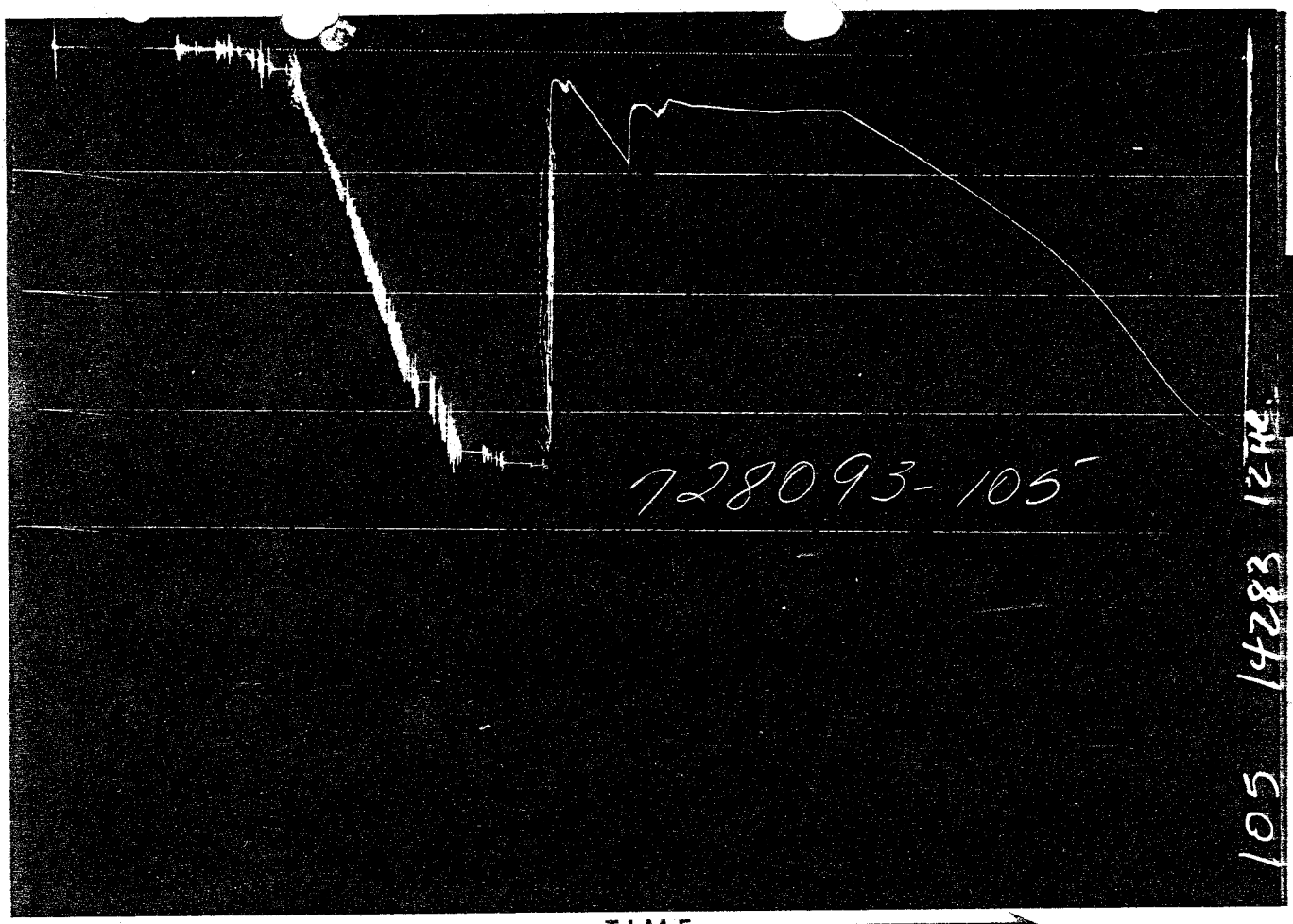
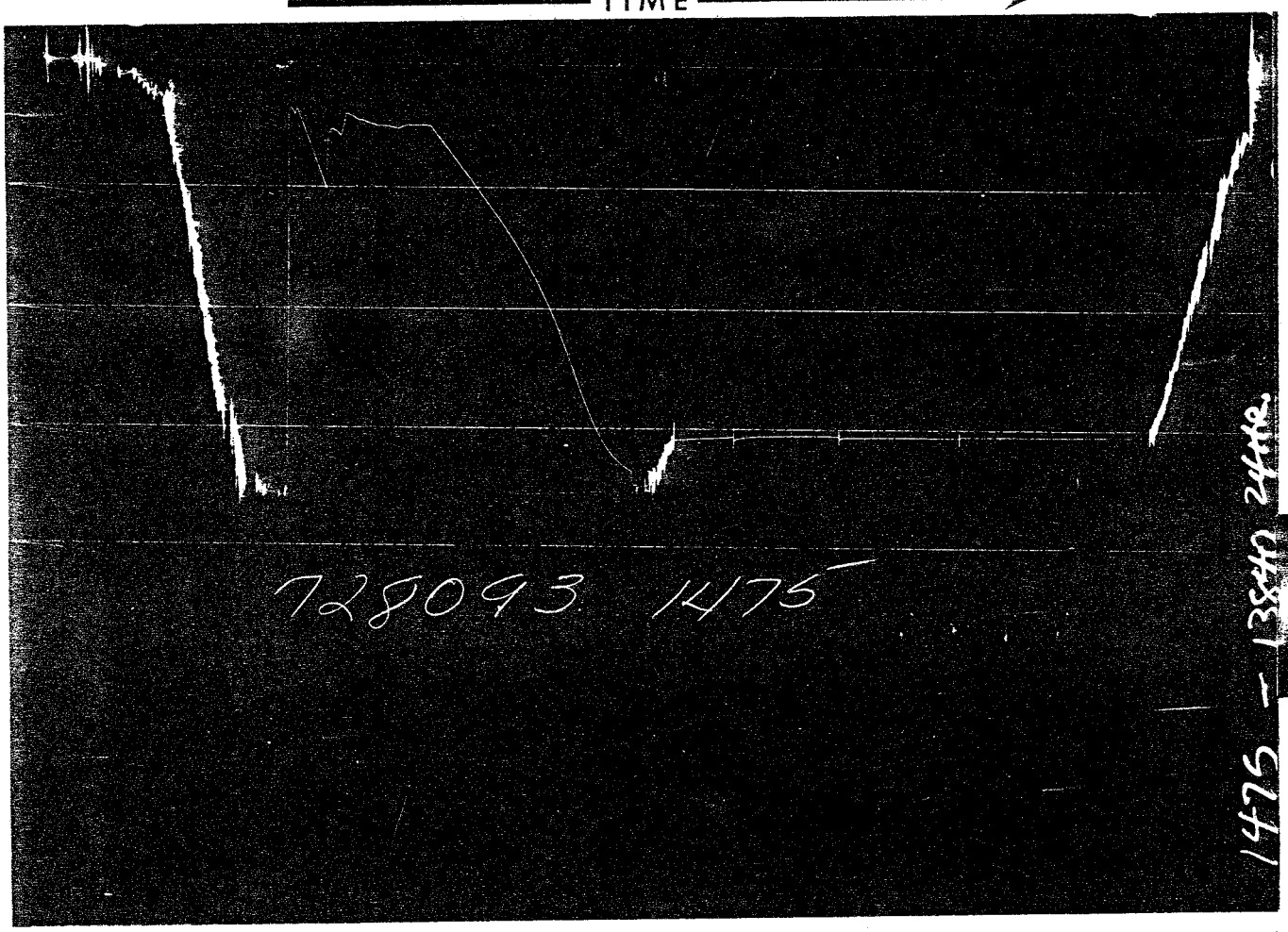


PRESSURE

TIME



Each Horizontal Line Equal to 1000 p.s.i.

Casing perfs. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 728093
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date 8-13-81 Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
2300					On location.
0800					Picked up and made up the tools.
1000					Went in the hole with DST.
1245					Made up surface equipment.
1308	BUBBLE HOSE	11 ozs.			On bottom - opened tool with a good blow.
1310	"	12 ozs.			Good blow to the bottom of the bucket.
1313	"	15 ozs.			"
1315	"	17			"
1318	"	3.5#			"
1321	"	4#			"
1323	"	4#			Closed tool with a good blow.
1353	"	4.5 ozs.			Opened tool with a good blow to the bottom of the bucket.
1358	"	10			"
1403	"	21.5			"
1408	"	31			"
1413	"	3.5#			"
1418	"	6#			"
1423	"	12#			"
1428	"	15.5#			"
1433	"	18#			"
1439	"	20			"
1444	"	22			"
1449	"	24			"
1454	"	26			"
1459	"	27.5			"
1504	"	29#			Gas to the surface -1 hour & 12 minutes- switch to choke.

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PRODUCTION TEST DATA

SEE PAGE # 2

LITTLE'S

Casing perfs. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 728093
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks PAGE # 2
1515	1/8"	35#			10' flare.
1520	"	30			8' flare.
1524	"	20			"
1531	"	12			6' flare.
1537	"	12			"
1544	"	9.5			"
1550	"	7			4' flare.
1553	"	5			Closed tool - 4' flare.
1958					Pulled off bottom - opened bypass. Pulled
					13 stands - waited until daylight.
8-14-81 0615					Started out of the hole with the test.
1030					Out of the hole.
1100					Broke down tools and loaded.
1200					Job complete.

FORM 182-R1—PRINTED IN U.S.A.

PRODUCTION TEST DATA

LITTLE'S

MARATHON OIL COMPANY

Lease Owner/Company Name

728093

Ticket Number

B.T. 105 | B.T. 1475 | B.T.

Depth 5509' | Depth 5699' | Depth

12 Hour Clock | 24 Hour Clock

Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
FIRST FLOW...			FIRST FLOW...					
0		357.3	0		359.4			
10.6		238.9	10.3		361.7			
FIRST CLOSED IN.			FIRST CLOSED IN..					
0		238.9	0		361.7			
34.5		901.3	34.7		1002.7			
SECOND FLOW.			SECOND FLOW...					
0		524.4	0		575.1			
20		428.0	20		482.4			
40		424.2	40		447.7			
60		450.9	60		492.1			
80		473.1	80		509.0			
100		455.2	100		488.1			
120.0		454.3	121.2		490.0			
SECOND CLOSED IN...			SECOND CLOSED IN..					
0		454.3	0		490.0			
20		616.2	20		662.6			
40		793.7	40		843.7			
60		975.8	60		1028.0			
80		1166.9	80		1217.5			
100		1368.0	100		1423.2			
120		1588.6	120		1647.8			
140		1857.3	140		1919.8			
160		2191.8	160		2253.0			
180		2569.6	180		2625.7			
200		2915.6	200		2974.5			
220		3142.1	220		3205.3			
232.8		3227.9	240		3333.1			
CHART TIME EXPIRED.			244.1		3349.8			

Remarks:

80-2860

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KET NO. 728093

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	5.75"	3"	1'	
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	5246'	
Drill Collars	6.25"	2.25"	248'	
~~Handling Subs & Choke Assembly~~ X0	5.75"	3"	1'	
Dual CIP Valve				
Dual CIP Sampler	5.03"	.87"	7'	5501'
Hydro-Spring Tester	5.00"	.75"	5'	5507'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4'	5509'
Hydraulic Jar	5.03"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	7.75"	1.53"	6'	5524'
Distributor				
Packer Assembly	7.75"	1.53"	6'	5530'
Anchor Pipe Safety Joint	5.75"	1.5"	4'	
Side Wall Anchor				
Drill Collars	6.25"	2.25"	124'	
Flush Joint Anchor	5.75"	3"	38'	
Blanked-Off B.T. Running Case	5.75"	-	4'	5699'
Total Depth				5702'

EQUIPMENT DATA

7000 [illegible] MAP GAS

IF 15 min
ICI 30 min
FF 2 [illegible]
FSI [illegible]

[illegible] CLOSE IN [illegible]

IF - GOOD FLOW TO BOTTOM OF BUCKET
BUILT UP 4 psi

IF - GAS TO SURFACE AFTER [illegible] 35 psi [illegible] (17 min)
DECREASE [illegible] 5 psi 5 min

POOR COPY

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

MARATHON OIL COMPANY

TIN CUP MESA 1-25 FEDERAL
WILDCAT
SAN JUAN COUNTY, UTAH

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

MARATHON OIL COMPANY
TIN CUP MESA 1-25 FEDERAL
WILDCAT
SAN JUAN COUNTY, UTAH

DATE : 8-17-81
FORMATION : ISMAY & DESERT CREEK
DRLG. FLUID: WATER BASE MUD
LOCATION : SW NW SEC 25 T38S-R25E

FILE NO : RP-3-3123
ANALYSTS : GG-DS
ELEVATION: 4999 KB

WHOLE CORE ANALYSIS WITH BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
	5335.0-43.0							AHHY/LM/SHL NO ANALYSIS
	5343.0-49.0							LM/SHL NO ANALYSIS
	5349.0-62.0							ANHYDRITE NO ANALYSIS
	5362.0-11.0							ANHTDRITE NO ANALYSIS
	5411.0-22.0							DOL/LM NO ANALYSIS
	5422.0-52.0							DOL/LM/ANHY NO ANALYSIS
1	5452.0-53.0	35.	*	9.2	5.9	35.3	2.75	LM GRY FXLN ANHY
2	5453.0-54.0	0.65	*	9.6	1.7	22.6	2.77	LM GRY FXLN ANHY RUBBLE
3	5454.0-55.0	0.21	*	8.6	10.8	47.7	2.72	LM GRY FXLN ANHY RUBBLE
4	5455.0-56.0	0.20	*	6.6	7.2	27.5	2.73	LM GRY FXLN ANHY SL/VUG CALC
5	5456.0-57.0	0.02	*	5.8	0.0	31.4	2.81	LM GRY FXLN ANHY SL/VUG CALC
6	5457.0-58.0	17.	16.	8.6	10.0	34.0	2.70	LM GRY FXLN ANHY SL/VUG CALC
7	5458.0-59.0	7.00	6.70	5.2	5.9	11.8	2.71	LM GRY FXLN ANHY SL/VUG CALC
8	5459.0-60.0	3.20	3.10	4.9	0.0	9.8	2.72	LM GRY FXLN ANHY SL/VUG CALC
9	5460.0-61.0	0.34	*	7.3	2.1	29.2	2.72	LM GRY FXLN ANHY SL/VUG CALC
10	5461.0-62.0	1.50	0.66	6.7	0.0	29.3	2.69	LM GRY FXLN ANHY SL/VUG CALC
11	5462.0-63.0	1.20	1.10	5.3	0.0	11.8	2.72	LM GRY FXLN ANHY SL/VUG CALC
12	5463.0-64.0	0.07	*	7.1	0.3	48.4	2.72	LM GRY FXLN ANHY SL/VUG CALC
13	5464.0-65.0	10.	*	8.1	0.0	35.3	2.73	LM GRY FXLN ANHY SL/VUG CALC
14	5465.0-66.0	1.80	1.40	5.7	0.0	33.3	2.70	LM GRY FXLN ANHY SL/VUG CALC
15	5466.0-67.0	1.90	1.30	5.6	0.0	27.8	2.68	LM GRY FXLN ANHY SL/VUG CALC
16	5467.0-68.0	1.10	0.95	5.7	0.0	27.5	2.71	LM GRY FXLN ANHY SL/VUG CALC
17	5468.0-69.0	0.50	*	6.1	2.7	51.4	2.72	LM GRY FXLN ANHY SL/VUG CALC
18	5469.0-70.0	1.70	1.10	3.8	0.0	53.1	2.71	LM GRY FXLN ANKY SL/VUG CALC
19	5470.0-71.0	3.40	1.60	5.4	0.0	25.0	2.70	LM GRY FXLN ANHY AS/VUG CALC
20	5471.0-72.0	0.26	0.23	2.1	0.0	16.7	2.73	LM GRY FXLN ANHY SL/VUG CALC
	5472.0-73.0							LM/ANHY NO ANALYSIS
	5473.0-74.0							LM/DOL NO ANALYSIS

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

MARATHON OIL COMPANY
TIN CUP MESA 1-25 FEDERAL

DATE : 8-17-81
FORMATION : ISMAY & DESERT CREEK

FILE NO : RP-3-3123
ANALYSTS : GG-DS

WHOLE CORE ANALYSIS WITH BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
	5474.0-75.0							DOLOMITE NO ANALYSIS
	5475.0-77.0							DOL/LM/SHL NO ANALYSIS
	5477.0-80.0							DOLOMITE NO ANALYSIS
	5480.0-82.0							LIMESTONE NO ANALYSIS
	5482.0-17.0							SHL/LM NO ANALYSIS
	5517.0-51.0							DRILLED
21	5651.0-52.0	0.18	*	12.5	27.1	34.7	2.74	DOL BRN EARTHY RUBBLE
22	5652.0-53.0	2.80	*	23.5	19.3	43.2	2.76	DOL BRN EARTHY VF
23	5653.0-54.0	3.10	*	19.9	32.5	39.5	2.80	DOL BRN EARTHY
24	5654.0-55.0	2.10	*	19.7	29.1	34.2	2.81	DOL BRN EARTHY VF
25	5655.0-56.0	6.50	4.30	16.2	12.7	22.7	2.81	DOL BRN EARTHY
26	5656.0-57.0	1.80	*	21.3	26.3	39.1	2.80	DOL BRN EARTHY
27	5657.0-58.0	6.60	3.50	21.9	20.9	62.1	2.81	DOL BRN EARTHY
28	5658.0-59.0	0.34	*	13.4	19.7	28.7	2.82	DOL BRN EARTHY
29	5659.0-60.0	1.20	*	18.3	10.0	18.0	2.80	DOL BRN EARTHY
30	5660.0-61.0	0.14	*	13.0	12.1	67.7	2.79	DOL BRN EARTHY
34	5664.0-65.0	<0.01	*	3.5	27.8	44.4	2.72	LM GRY FXLN FOSS
35	5665.0-66.0	0.05	0.03	4.4	28.0	32.0	2.72	LM GRY FXLN FOSS
36	5666.0-67.0	0.03	0.02	4.1	17.9	46.4	2.71	LM GRY FXLN FOSS
37	5667.0-68.0	<0.01	*	3.5	15.1	68.8	2.72	LM GRY FXLN FOSS
38	5668.0-69.0	<0.01	*	2.8	0.0	33.3	2.73	LM GRY FXLN FOSS
39	5669.0-70.0	14.	1.60	4.4	50.0	14.3	2.72	LM GRY FXLN FOSS
40	5670.0-71.0	0.46	0.32	3.6	55.6	22.2	2.72	LM GRY FXLN FOSS
41	5671.0-72.0	8.20	5.70	2.2	9.1	72.7	2.69	LM GRY FXLN FOSS
	5672.0-95.0							SHL/LM NO ANALYSIS
43	5695.0-96.0	<0.01	*	1.4	66.7	13.3	2.74	LM GRY FXLN SL/SHL VF
44	5696.0-97.0	0.19	0.09	5.4	73.3	13.3	2.72	LM DK-GRY VFXLN SHL VF
45	5697.0-98.0	0.01	*	4.0	72.2	21.8	2.72	LM GRY FXLN SL/SHL
46	5698.0-99.0	0.35	0.13	5.3	56.5	26.1	2.71	LM GRY FXLN SL/SHL
47	5699.0-00.0	2.50	*	7.6	34.3	45.7	2.75	LM GRY FXLN SL/SHL VF

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

MARATHON OIL COMPANY
TIN CUP MESA 1-25 FEDERAL

DATE : 8-17-81
FORMATION : ISMAY & DESERT CREEK

FILE NO : RP-3-3123
ANALYSTS : GG-DS

WHOLE CORE ANALYSIS WITH BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
48	5700.0-01.0	<0.01	*	1.7	5.3	68.4	2.68	LM GRY FXLN SL/SHL VF
49	5701.0-02.0	<0.01	*	1.8	9.1	54.5	2.70	LM GRY FXLN SL/SHL RUBBLE
50	5702.0-03.0	<0.01	*	3.6	0.0	64.7	2.72	LM GRY FXLN SL/SHL RUBBLE
51	5703.0-04.0	<0.01	*	7.6	5.4	73.0	2.78	LM GRY GXLN SL/SHL DOL RUBBLE
52	5704.0-05.0	0.10	0.04	3.0	30.1	30.2	2.77	LM GRY FXLN SL/SHL DOL
53	5705.0-06.0	0.45	0.37	11.9	39.6	22.0	2.81	DOL BRN EARTHY
54	5706.0-07.0	0.25	0.22	10.0	34.7	24.2	2.82	DOL BRN EARTHY
	5707.0-09.5							ANHYDRITE NO ANALYSIS
	5709.5-12.0							SHL/LM NO ANALYSIS
55	5712.0-13.0	0.01	*	4.6	0.0	50.0	2.77	LM DK-GRY FXLN SHL DOL
56	5713.0-14.0	0.01	*	5.0	0.0	73.9	2.72	LM DK-GRY FXLN SHL DOL

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

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CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY MARATHON OIL COMPANY FILE NO. RP-3-3123

WELL TIN CUP MESA 1-25 FEDERAL DATE 8-17-81

FIELD WILDCAT FORMATION ISMAY & DESERT CR ELEV. 4999 KB

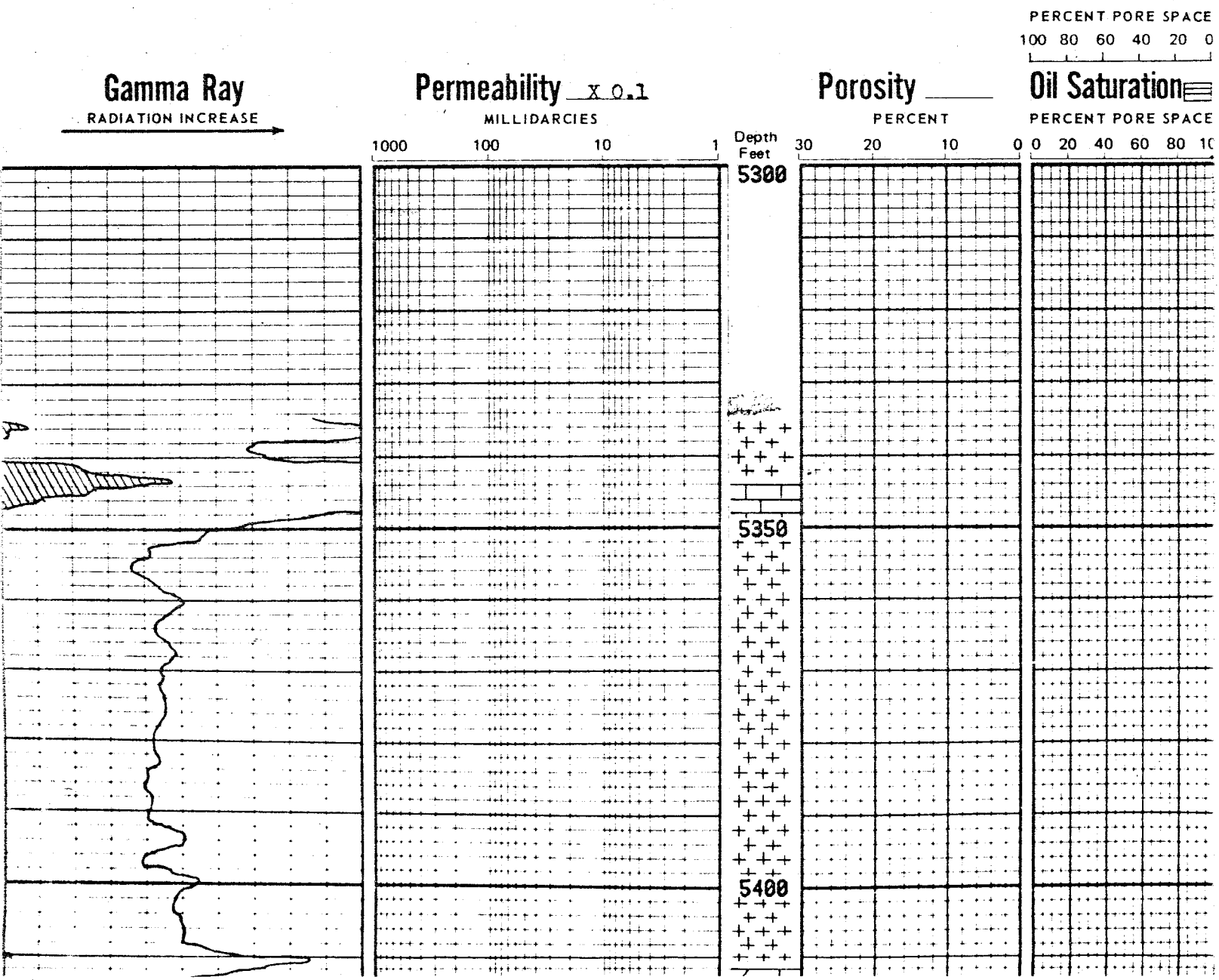
COUNTY SAN JUAN STATE UTAH DRLG. FLD. WATER BASE MUD CORES

LOCATION SW NW SEC. 25 T38S-R25E

CORRELATION COREGRAPH

These analyses, opinions or interpretations are based on observations and material 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 or 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 operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'



Form 9–331
Dec. 1973

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

PROGRESS REPORT

See Attachments

From: 3-19-82 To: 3-26-82

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

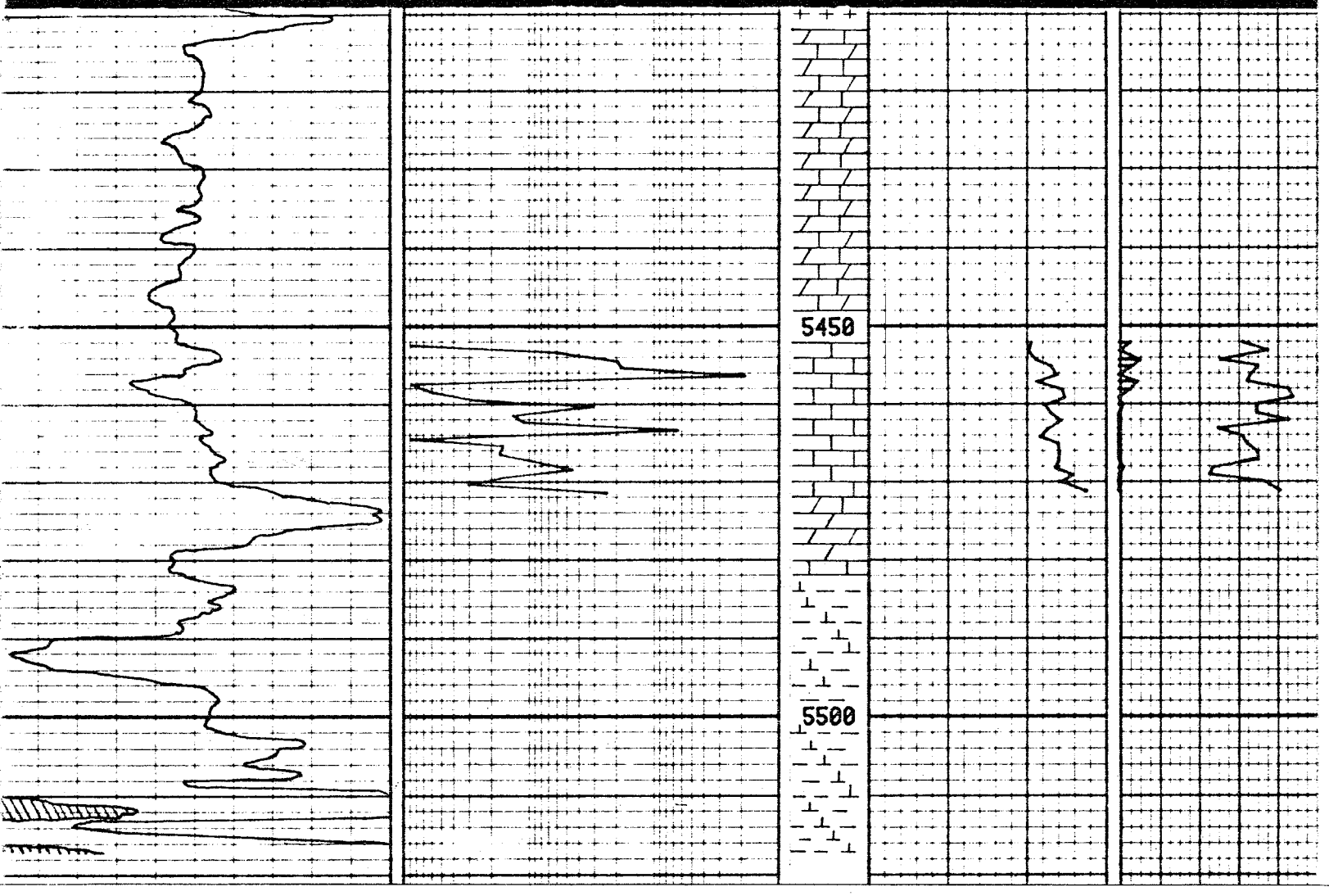
18. I hereby certify that the foregoing is true and correct

SIGNED M E Krugh TITLE Drilling Superintendent DATE April 5, 1982

(This space for Federal or State office use)

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

*See Instructions on Reverse Side


5450
5500

TINCUP MESA #1-25

3-19-82 POH. RIH W/NEW RBP (MODEL "G") NEW ON-OFF TOOL, 1 JT, DBL GRIP PKR & 172 JTS 2-3/8" TBG. SET RBP @ 5,195'. SET PKR @ 5,093'. PRESS UP 3,000#. HELD F/15 MIN. RELEASED PKR & FILLED HOLE W/2% KCL. PRESS UP TO 500#. HELD 5 MIN. CIRC DOWN 250# SAND.

3-20-82 POH TO 5,159'. SPOTTED 500 GAL MUD CLEANUP ACID. SET PKR @ 5,037'. REMOVED BOP & INSTALLED TREE. RIH W/GO WINDER HOLLOW CARRIER TBG GUN, COULDN'T GET PAST 5,159' KB; POH W/GUN.

3-21-82 REMOVED TREE & INSTALLED BOP. RIH W/3 JTS, TAGGED W/3RD JT; REVERSE CIRCULATED. CIRC OUT SEVERAL SLUGS OF PARAFFIN. POH TO 5,159'. SPOTTED 500 GALS MUD CLEANUP ACID. SET PKR @ 5,037'. INSTALLED WELLHEAD & WIH W/GO PERFORATING GUN. PERF'D THE HONAKER TRAIL 5,152-5,162' KB W/4 SPF, 39 SHOTS. POH & RAN 2ND GUN, HUNG UP @ 92'. POH & DUMPED 5 GALS DIESEL DOWN TBG. RAN GUN, HUNG UP @ 550' KB. DID NOT PERFORATE 5,150'-5,152' KB. PMPD NITROGEN DOWN TBG, PRESS'D TO 3400 PSI ALMOST IMMEDIATELY. DUMPED 5 GALS DIESEL DOWN TBG. PMPD NITROGEN @ 500 SCF/M, PRESS'D TO 3600 PSI & DROPPED TO 3400 PSI WHILE PMPG. INCREASED TO 400 PSI WHEN NITROGEN HIT FORMATION. PMPD APPROX 30 BBLS NITROGEN DOWN TBG DURING THE JOB.

3-23-82 WELL LEFT OPEN, DID NOT FLOW. RU TO SWAB. RECOVERED 6 BW, NO OIL. FL @ 4,800'.

3-24-82 SITP 0#. RU TO SWAB. FL @ 4,850'. NO FLUID RECOVERED.

3-25-82 MADE SEVERAL SWAB RUNS, NO FLUID RECOVERY.

3-26-82 RU NOWSCO ACID & NITROGEN TRUCKS TO ACIDIZE HONAKER TRAIL FORMATION. TESTED LINES TO 10,000 PSI. ACIDIZED HONAKER TRAIL 5,152'-5,162' KB @ AVG RATE OF 9 BPM, 8,500 PSI, TOTAL RATE W/NITROGEN 11.5 BPM, W/5,000 GALS 28% HCL, 0.4% INHIBITOR, 1% IRON SEQUESTERING ACENT, 0.4% NON-EMULSIFIER, 2#/1,000 FRICTION REDUCER, & 400 SCF NITROGEN/BBL. ISIP 4,000 PSI. FTP 180 PSI, 14/64" CHOKE, SURGING FLUIDS (NO INDICATION OF OIL).

Form 9–331
Dec. 1973

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] gas well [ ] other Completion Stage
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: 1,950' FNL & 790' FWL
   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.: 1-25
10. FIELD OR WILDCAT NAME: Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 25, T38S, R25E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah
14. API NO.: 43-037-30690
15. ELEVATIONS (SHOW DF, KDB, AND WD): 4,985' GL, 4,999' 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	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[X]	[ ]
ABANDON*	[ ]	[ ]
(other)		

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

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

SEE ATTACHMENT

RECEIVED
JUN 04 1982
DIVISION OF
OIL, GAS & MINING

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 6/14/82
BY: [illegible]

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

18. I hereby certify that the foregoing is true and correct
SIGNED Dale Caddy TITLE District Operations Manager DATE May 28, 1982

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TIN CUP MESA #1-25
Sec. 25, T38S, R25E
San Juan County, Utah
Form 9-331

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS:

Present: Testing of the Honaker Trail formation was discontinued on March 27, 1982, and the well temporarily abandoned on April 3, 1982 (Refer to Sundry Notice of April 26, 1982).

Proposed: We propose cement squeezing the Honaker Trail perforations and testing the Ismay formation from 5,416'-5,426' for oil and gas potential as per the outlined procedure:

1) Cement squeeze Honaker Trail perforations 5,152'-5,162' with 25 sacks of regular cement.
2) Drill out cement and test casing to 2,000 psi.
3) Set retrievable bridge plug at 5,460' above Desert Creek perfs 5,652'-5,662'.
4) Load casing with 2% KCl water and spot acid across Ismay zone.
5) Set retrievable packer at 5,300' and tree up wellhead.
6) Perf Ismay through tubing in acid from 5,416'-5,426' and swab for test.
7) Move off completion unit and obtain Ismay production and bottom hole pressure tests.

No additional surface disturbance for this activity is anticipated.

Verbal approval was received from E. W. Guynn as per phone call 11:00 a.m., May 28, 1982.

The proposed work is scheduled to be started June 2, 1982.

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

September 30, 1982

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

Re: Well No. Tin Cup Mesa #1-25
Sec. 25, T. 38S, R. 25E
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
Clerk Typist

CF/cf
Enclosure

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

Casper Division
Production, U.S. & Canada

Marathon Oil Company

P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/577-1555

October 4, 1982

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

ATTN: Ms. Cari Furse

Dear Ms. Furse:

Tin Cup Mesa #1-25, Section 35, T38S, R25E, San Juan County, Utah, is still on test in conjunction with Tin Cup Mesa #3-26. It has not been completed as to date. As soon as this test is completed we will make out a completion report and a copy will be forwarded to your office as soon as possible.

Sincerely,

Walt West
Government Compliance

WEW:jmb
attachment

RECEIVED
OCT 07 1982
DIVISION OF
OIL, GAS & MINING

Form DOGC-4

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL & GAS CONSERVATION

4241 STATE OFFICE BUILDING

SALT LAKE CITY, UTAH 84114

533-5771

State Lease No.
Federal Lease No. 71-031928
Indian Lease No.
Fee & Pat.

CONFIDENTIAL

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY SAN JUAN FIELD/LEASE TIN CUP MESA

The following is a correct report of operations and production (including drilling and producing wells) for the month of: December, 19 82.

Agent's Address P. O. BOX 120
CASPER, WYOMING 82602

Phone No. 307-235-2511

Company MARATHON OIL COMPANY
Signed [illegible]
Title SECTION SUPERVISOR

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	API NUMBER/REMARKS (If drilling, depth; If shut down, cause; date and result of test for gasoline content of gas)
NWNE-26	38S	25E	3-26	0	0	—	0	—	None	43-037-30762
SWNW-23	38S	25E	2-23	16	2237	46	0	—	None	5798' TD, 5747 PB TD - well shut in waiting gas disposition.
					Confid.		43-037-30808			
SWSW-23	38S	25E	3-23				43-037-30815			5895' TD, 5851' PB TD. Shut in while running down hole equipment.
SESW-25	38S	25E	1-25		Confid.		43-037-30690			5714' TD, 5543' PB TD. Shut in due to surface equipment failure.

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

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

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

Note: The API number must be listed on each well.

Form 9–331
Dec. 1973

CONFIDENTIAL

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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 [X] 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: 1,950' FNL & 790' FWL
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	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) Please see below		

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

RECEIVED
DEC 29 1982
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.)*

PROGRESS REPORT

See Attachments

From: 6-25-82 To: 12-16-82

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

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

SIGNED Dale Caddy TITLE District Operations Manager DATE 12-22-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

10-1-82/
10-29-82 WELL SI W/INSTRUMENTS DOWNHOLE.

10-30-82 PULLED INSTRUMENTS OUT OF WELL.

10-31-82 RAN BACK IN HOLE W/TEST INSTRUMENTS.

11-1-82/
12-13-82 SI W/INSTRUMENTS DOWNHOLE.

12-14-82 MOVED IN COMPLETION UNIT. RIGGED UP UNIT, SITP 480. OPENED CHOKE @ WELLHEAD & BLED OFF PRESS & OIL TO PROD TREATER. PUMPED 20 BBLS WATER DOWN TBG, REMOVED TREE & INSTALLED BOP. SWI. SDFN.

12-15-82 PULLED TBG & PKR OUT OF WELL. RAN IN WELL WITH PERFORATED GAS ANCHOR, SEATING NIPPLE, MODEL "B" BAKER ANCHOR CATCHER, TBG STRING & TBG HANGER (DONUT) LANDED TBG SET ANCHOR IN 12,000# TENSION. REMOVED BOP - BOLTED ON COMPANION FLANGE WITH 6" X 2-3/8 EUE NIPPLE, PUMPING TEE. SWI, SDFN.

12-16-82 RAN 1-1/4" TRICO PUMP & ROD STRING IN WELL. SEATED PUMP IN SEATING NIPPLE @ 5,421' (PERFS @ 5,416'-5,426'). INSTALLED HORSE HEAD ON WALKING BEAM, STARTED AJAX ENGINE & SPACED PUMP. LOADED TBG W/WTR & TESTED PUMP. SWI.

TINCUP MESA #1-25

6-25-82 SITP 1,130#. FINISHED CONNECTING UP TEST SEPARATOR. DID NOT UNLOAD ANY MEASURABLE AMOUNT OF WTR &OIL. RAN SWAB, TAGGED FL @ 1,800'. BEGAN SWABBING THRU TEST SEPARATOR, MADE 10 RUNS. SWABBED 29 BW & 4.98 BO, GAS APPROX 100 MCF. SWABBED DOWN TO 4,000' IN 5 HRS.

6-26-82 SITP 940#. OPENED TBG TO TEST SEPARATOR, CHOKE 14/64", SEP PRESS 90#; FLOWED TILL 11 AM (2-1/2 HRS) 1 BO, 4 BW & 131 MCF. LEFT OPEN TO SEP F/1 MORE HR, DID NOT UNLOAD. BEGAN SWABBING, FOUND FLUID LEVEL @ 2,200'. SWABBED DOWN TO 3,700'. TOTAL 31 BW & 3.3 BO.

6-27-82 SITP 450#. OPENED TBG TO SEP, CHOKE 24/64", WELL FLOWED FOR 1-1/2 HRS, 3 BO, 2 BW, 132 MCF, SEP PRESS 90. BEGAN SWABBING, FLUID LEVEL @ 2,400'. SWABBED FLUID DOWN TO 3,500'. TOTAL 26 BW & 10 BO.

6-28-82 SD FOR SUNDAY.

6-29-82 SITP 500#. OPENED TBG TO TEST. WELL FLOWED FOR 1-1/2 HRS BEFORE LOGGING OFF. SEP PRESS 90, 1.6 BO, 1.6 BW & MCF 148. BEGAN SWABBING, FLUID LEVEL @ 2,000'. SWABBED FL DOWN TO 4,000'. TOTAL OIL 7 BBLS, TOTAL WTR 46 BBLS.

6-30-82 SITP 300#. OPENED TBG TO TEST SEP, UNLOADED SMALL AMT OF FLUID THRU SEP. BEGAN SWABBING WELL TO TANK, FOUND FLUID LEVEL @ 2,000', SWABBED DOWN TO 4,200'. TOTAL FLUID SWABBED 43 BBLS, (5 BO & 43 BW). TEFTELLER RAN IN HOLE W/INSTRUMENTS. LEFT WELL SI W/INSTRUMENTS DOWNHOLE.

7-1-82
7-12-82 SI W/INSTRUMENTS DOWNHOLE.

7-13-82 TEFTELLER PULLED INSTRUMENTS OUT OF HOLE.

7-14-82 TEFTELLER WIRELINE SERVICE COMPLETED TESTING PROCEDURES, PRESS SURVEYS & SAMPLES, ETC.

7-15-82/
7-20-82 SI. INSTALLING DRC TEST EQUIP ECT.

7-21-82 RU & RIH W/DRC EQUIP., ETC.

7-22-82
7-23-82 INSTALLING & TESTING DRC EQUIP.

9-18-82/
9-29-82 SI W/INSTRUMENTS DOWNHOLE.

9-30-82 WELL SI/W INSTRUMENTS DOWNHOLE. INSTALLING PUMPING UNIT & AJAX ENGINE @ #1-25.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

PROGRESS REPORT

See Attachments

From: 12-17-82 To: 1-5-83

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

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

SIGNED M E Krueger TITLE Drilling Superintendent DATE 1-6-83

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

12-17-82 SI. INSTALLING SURF EQUIP.

12-20-82 STATIC.

12-21-82 STARTED PMPG WELL TO TANKS.

12-22-82/
12-23-82 WELL PRODUCING 100% WATER.

12-24-82 WELL PRODUCING THRU PORTABLE SEPARATOR INTO TIN CUP BATTERY TEST TANK - (8 HR TEST) TP = 30#, 65 MCFD, 12 BO, 18 BW & GOR 1,805.

12-25-82 34/64" CHOKE, 16 MCFD, 3 BO, 83 BW.

12-26-82 40 MCFD, 24 BO, 48 BW.

12-27-82 48 MCFD, 24 BO, 48 BW.

12-28-82 48 MCFD, 27 BO, 47 BW.

12-29-82 40/64" CHOKE, 48 MCFD, 22 BO, 38 BW. CALCULATED 24 HR TEST = 48 MCF, 24 BO, 41 BW, 2,000 GOR.

12-30-82 34/64" CHOKE, 52 MCFD, 36 BO, 45 BW.

12-31-82 32/64" CHOKE, 52 MCFGPD, 26 BO, 30 BW.

1-1-83 CHOKE 34/64", MCF 52, 31 BW, 27 BO.

1-2-83 MCF 57, 35 BW, 27 BO.

1-3-83 53 MCF, 42 BW, 29 BO.

1-4-83 MCF 53, 40 BW, 25 BO.

1-5-83 MCF 53, 38 BW, 26 BO.

3 M

Form 9-331
Dec. 1973

CONFIDENTIAL

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

PROGRESS REPORT

See Attachments

From: 1-6-83 To: 1-18-83

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

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

SIGNED M E Krugh/A.G. TITLE Drilling Superintendent DATE 1-19-83

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

1-6-83 TP 55, CHOKE 34/64", MCF 53, 35 BW, 24 BO, TEMP 70°.

1-7-83 MCF 53, 31 BW, 31 BO.

1-8-83 MCF 53, 34 BW, 29 BO.

1-9-83 MCF 53, 33 BW, 24 BO.

1-10-83 MCF 63, 35 BW, 28 BO.

1-11-83 MCF 53, 42 BW, 32 BO.

1-12-83 MCF 53, 39 BW, 32 BO.

1-13-83 MCF 53, 38 BW, 31 BO.

1-14-83 MCF 53, 45 BW, 34 BO.

1-15-83 53 MCFD, 33 BO, 41 BW.

1-16-83 53 MCFD, 31 BO, 37 BW.

1-17-83 53 MCFD, 30 BO, 39 BW.

1-18-83 53 MCFD, 31 BO, 35 BW.

Confidential

M

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

RECEIVED FEB 14 1983 DIVISION OF OIL GAS & MINING

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: 1,950' FNL & 790' FWL
At top prod. interval reported below
At total depth

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.: 1-25

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 25, T38S, R25E

14. PERMIT NO.: 43-037-30690 | DATE ISSUED: 6-29-81

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

15. DATE SPUDDED: 7-18-81 | 16. DATE T.D. REACHED: 8-15-81 | 17. DATE COMPL. (*Ready to prod.*): 1-26-83 | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 4,985' GL, 4,999' KB | 19. ELEV. CASINGHEAD: --

20. TOTAL DEPTH, MD & TVD: 5,714' | 21. PLUG, BACK T.D., MD & TVD: 5,460' | 22. IF MULTIPLE COMPL., HOW MANY*: -- | 23. INTERVALS DRILLED BY: → | ROTARY TOOLS: 0'-5,714' | CABLE TOOLS: 0

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Ismay 5,416' - 5,426'

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL-SFL, BHC Sonic, FDC-CNL, CBL-VDL

27. WAS WELL CORED: 5 Cores

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	1,557'	12-1/4"	640 sx	None
7"	23# & 26#	5,712'	8-3/4"	995 sx	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		None		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	5,418'	SN @ 5,421'

31. PERFORATION RECORD (*Interval, size and number*)
Ismay 5,416' - 5,426'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5,416'-5,426'	500 gals MCA
	Acidized w/1500 gals 15% HCl

33.* PRODUCTION

DATE FIRST PRODUCTION: 8-28-81 | PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): Pump 11 SPM x 64" | WELL STATUS (*Producing or shut-in*): Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-26-83	24	--	→	30	53	37	1,767

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
50 psig	50 psig	→	30	53	37	Gas .700, Oil 45°

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

TEST WITNESSED BY: E. Nelson

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 Dale T Cassby by [illegible] TITLE District Operations Manager DATE February 8, 1983

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Shinarump	2,276'	2,339'	
Moenkopi	2,339'	2,384'	
Cutler	2,384'	4,229'	
Honaker Trail	4,229'	5,164'	
Paradox	5,164'	5,322'	
U. Ismay	5,322'	5,485'	
Hovenweep	5,485'	5,515'	
L. Ismay	5,515'	5,565'	
Gothic Shale	5,565'	5,573'	
Desert Creek	5,573'	5,673'	
Chimney Rock	5,673'	5,695'	
Akah	5,695'	5,714' TD	

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Shinarump	2,276'	
Moenkopi	2,339'	
Cutler	2,384'	
Honaker Trail	4,229'	
Paradox	5,164'	
U. Ismay	5,322'	
Hovenweep	5,485'	
L. Ismay	5,515'	
Gothic Shale	5,565'	
Desert Creek	5,573'	
Chimney Rock	5,673'	
Akah	5,695'	

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

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

State of Utah

CORE ANALYSIS REPORT

FOR

MARATHON OIL COMPANY

TIN CUP MESA 1-25 FEDERAL
WILDCAT
SAN JUAN COUNTY, UTAH

5 CORES

1. 5334 - 5362
2. 5362 - 5423
3. 5423 - 5482
4. 5482 - 5517
5. 5651 - 5709

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DIVISION OF
OIL, GAS & MINING

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

MARATHON OIL COMPANY
TIN CUP MESA 1-23 FEDERAL

DATE : 8-17-81
FORMATION : ISMAY & DESERT CREEK

FILE NO : RP-3-3123
ANALYSTS : GG-DS

WHOLE CORE ANALYSIS WITH BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	PERM. TO AIR (MD) 90 DEG	POR. He	FLUID SATS. OIL	FLUID SATS. WTR	GRAIN DEN	DESCRIPTION
	5474.0-75.0							DOLOMITE NO ANALYSIS
	5475.0-77.0							DOL/LM/SHL NO ANALYSIS
	5477.0-80.0							DOLOMITE NO ANALYSIS
	5480.0-82.0							LIMESTONE NO ANALYSIS
CORE 4 5482-5517	5482.0-17.0							SHL/LM NO ANALYSIS
	5517.0-51.0							DRILLED
21	5651.0-52.0	0.18	*	12.5	27.1	34.7	2.74	DOL BRN EARTHY RUBBLE
CORE 5 5651-8709 22	5652.0-53.0	2.80	*	23.5	19.3	43.2	2.76	DOL BRN EARTHY VF
23	5653.0-54.0	3.10	*	19.9	32.5	39.5	2.80	DOL BRN EARTHY
24	5654.0-55.0	2.10	*	19.7	29.1	34.2	2.81	DOL BRN EARTHY VF
PERFS 5652-5662 25	5655.0-56.0	6.50	4.30	16.2	12.7	22.7	2.81	DOL BRN EARTHY
26	5656.0-57.0	1.80	*	21.3	26.3	39.1	2.80	DOL BRN EARTHY
27	5657.0-58.0	6.60	3.50	21.9	20.9	62.1	2.81	DOL BRN EARTHY
28	5658.0-59.0	0.34	*	13.4	19.7	28.7	2.82	DOL BRN EARTHY
29	5659.0-60.0	1.20	*	18.3	10.0	18.0	2.80	DOL BRN EARTHY
30	5660.0-61.0	0.14	*	13.0	12.1	67.7	2.79	DOL BRN EARTHY
34	5664.0-65.0	<0.01	*	3.5	27.8	44.4	2.72	LM GRY FXLN FOSS
35	5665.0-66.0	0.05	0.03	4.4	28.0	32.0	2.72	LM GRY FXLN FOSS
36	5666.0-67.0	0.03	0.02	4.1	17.9	46.4	2.71	LM GRY FXLN FOSS
37	5667.0-68.0	<0.01	*	3.5	15.1	68.8	2.72	LM GRY FXLN FOSS
38	5668.0-69.0	<0.01	*	2.8	0.0	33.3	2.73	LM GRY FXLN FOSS
39	5669.0-70.0	14.	1.60	4.4	50.0	14.3	2.72	LM GRY FXLN FOSS
40	5670.0-71.0	0.46	0.32	3.6	55.6	22.2	2.72	LM GRY FXLN FOSS
41	5671.0-72.0	8.20	5.70	2.2	9.1	72.7	2.69	LM GRY FXLN FOSS
	5672.0-95.0							SHL/LM NO ANALYSIS
43	5695.0-96.0	<0.01	*	1.4	66.7	13.3	2.74	LM GRY FXLN SL/SHL VF
44	5696.0-97.0	0.19	0.09	5.4	73.3	13.3	2.72	LM DK-GRY VFXLN SHL VF
45	5697.0-98.0	0.01	*	4.0	72.2	21.8	2.72	LM GRY FXLN SL/SHL
46	5698.0-99.0	0.35	0.13	5.3	56.5	26.1	2.71	LM GRY FXLN SL/SHL
47	5699.0-00.0	2.50	*	7.6	34.3	45.7	2.75	LM GRY FXLN SL/SHL VF

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

MARATHON OIL COMPANY
TIN CUP MESA 1-25 FEDERAL

DATE : 8-17-81
FORMATION : ISMAY & DESERT CREEK

FILE NO : RP-3-3123
ANALYSTS : GG-DS

WHOLE CORE ANALYSIS WITH BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
48	5700.0-01.0	<0.01	*	1.7	5.3	68.4	2.68	LM GRY FXLN SL/SHL VF
49	5701.0-02.0	<0.01	*	1.8	9.1	54.5	2.70	LM GRY FXLN SL/SHL RUBBLE
50	5702.0-03.0	<0.01	*	3.6	0.0	64.7	2.72	LM GRY FXLN SL/SHL RUBBLE
51	5703.0-04.0	<0.01	*	7.6	5.4	73.0	2.78	LM GRY GXLN SL/SHL DOL RUBBLE
52	5704.0-05.0	0.10	0.04	3.0	30.1	30.2	2.77	LM GRY FXLN SL/SHL DOL
53	5705.0-06.0	0.45	0.37	11.9	39.6	22.0	2.81	DOL BRN EARTHY
54	5706.0-07.0	0.25	0.22	10.0	34.7	24.2	2.82	DOL BRN EARTHY
	5707.0-09.5							ANHYDRITE NO ANALYSIS
	5709.5-12.0							SHL/LM NO ANALYSIS
55	5712.0-13.0	0.01	*	4.6	0.0	50.0	2.77	LM DK-GRY FXLN SHL DOL
56	5713.0-14.0	0.01	*	5.0	0.0	73.9	2.72	LM DK-GRY FXLN SHL DOL

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

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.

LD WILDCAT FORMATION ELEV.

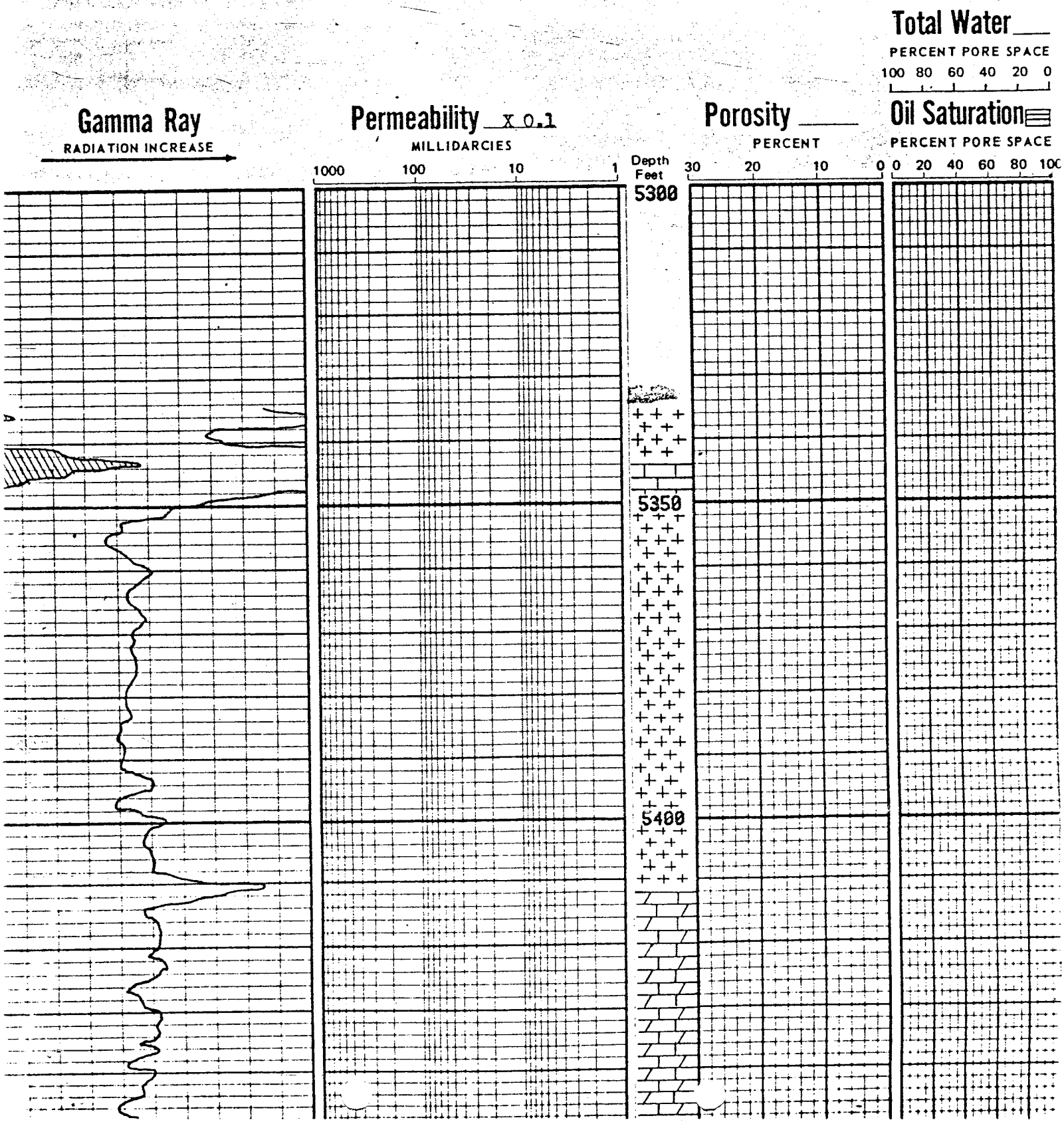
UNTY SAN JUAN STATE UTAH DRLG. FLD. WATER BASE MUD CORES

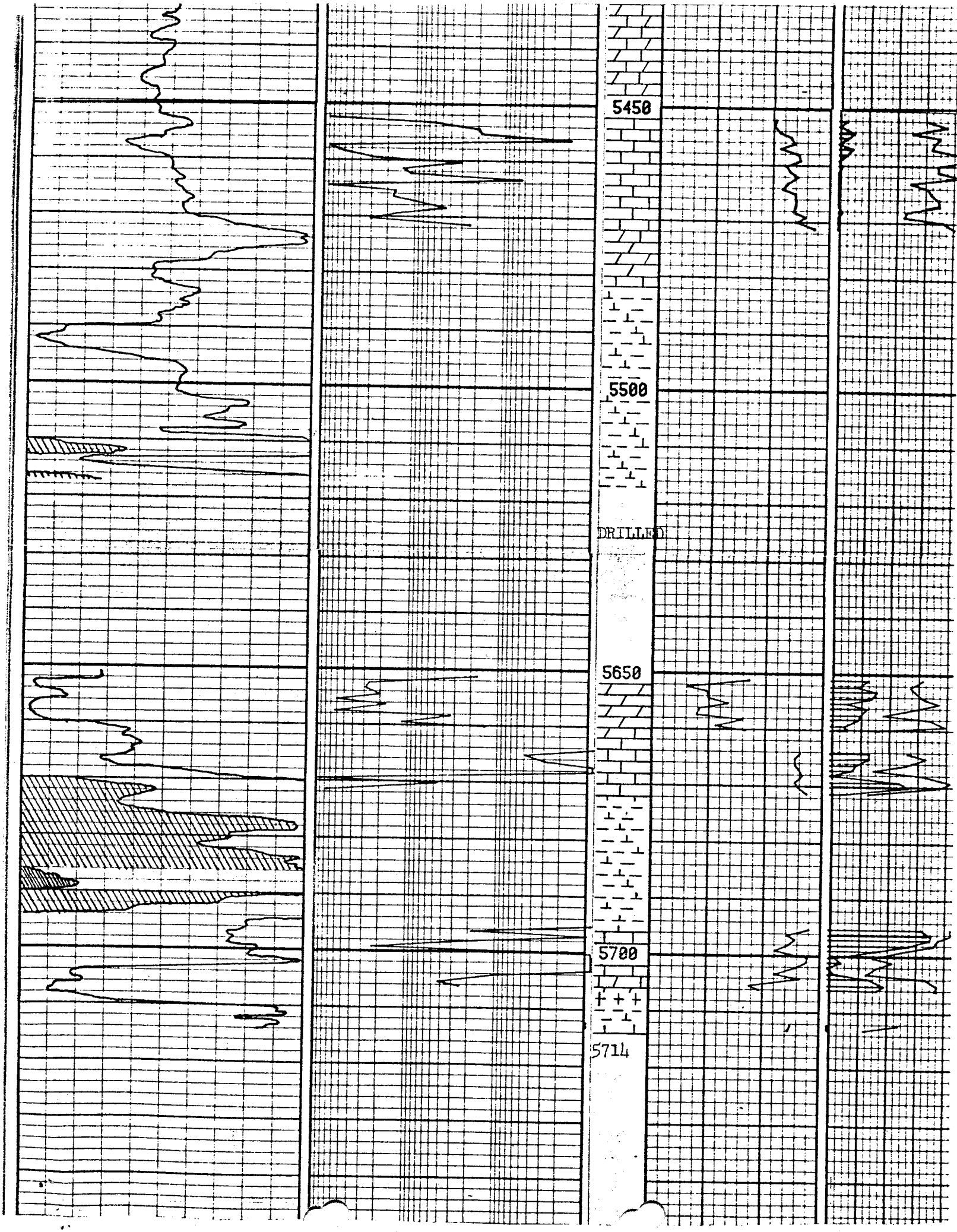
CATION SW NW SEC. 25 T38S-R25E

CORRELATION COREGRAPH

These analyses, opinions or interpretations are based on observations and material 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 or 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 operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'




5450
5500
DRILLED
5650
5700
5714

17. We propose to set a 10' x 40' skid-mounted building to serve as an office and emergency living quarters for the Tin Cup Mesa Field.

We plan to put this building to the east and south of the approved area of the gas compressor, which is just off Well #1-25 location (see approved Sundry Notice dated June 10, 1983).

This facility will have electric hookups and gas heat. Toilet facilities will be provided by self-contained units which will be equipped with chemical holding tanks. These units will be maintained on a regular basis. All potable water used on location will be carried to the location.

On September 22, 1983, Mr. Brian Wood, BLM, and Walt West of Marathon Oil Company met on location and agreed to the surface area for this facility.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Wildcat

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

RECEIVED
FEB 17 1983
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.)*

PROGRESS REPORT

See Attachments

From: 1-19-83 To: 2-9-83

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

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

SIGNED M E Kingh TITLE Drilling Superintendent DATE 2-14-83

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

1-19-83 34/64" CHOKE. 53 MCFD, 34 BO, 34 BW.

1-20-83 53 MCFD, 29 BO, 35 BW.

1-21-83 53 MCFD, 29 BO, 33 BW.

1-22-83 44 MCFD, 32 BO, 30 BW.

1-23-83 37 MCFD, 21 BO, 22 BW.

1-24-83 WELL NOT PMPG.

1-25-83 57 MCFD, 32 BO, 41 BW.

1-26-83 57 MCFD, 38 BO, 41 BW.

1-27-83 57 MCFD, 20 BO, 20 BW.

1-28-83 WELL DOWN.

1-29-83/
2-8-83 SI.

2-9-83 SI.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CONFIDENTIAL

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.
1-25 ✓ (CONFIDENTIAL)

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

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

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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 Surface Facilities

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: 1,950' FNL & 790' FWL
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	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) PLEASE SEE BELOW		

(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.)*

Utilize land adjacent to and on the present Tin Cup Mesa #1-25 well location for installation of a compressor and attendant facilities, and for installation of the proposed facilities detailed in the attachments.

RECEIVED
MAY 23 1983
DIVISION OF OIL, GAS & MINING

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 5/26/83
BY: [signature]

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

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

SIGNED [signature] TITLE Acting District Manager DATE May 20, 1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Jeo
[signature]

ATTACHMENT
FORM 9-331

Tin Cup Mesa #1-25
San Juan County, Utah

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS:

We propose to set a gas compressor and attendant facilities at or near to the existing Tin Cup Mesa Battery in order to sell the gas produced from the Tin Cup Mesa Unit. These facilities are necessary to make the gas salable; gas will be compressed from treater pressure (~30 psi) to a pressure sufficient to enter Mountain Fuel's pipeline at the Patterson Canyon Field after going through our proposed pipeline.

All gas and liquids will be metered or measured before they leave the unit. To ensure that single-phase gas is metered into and out of our pipeline to Patterson Canyon, it will be necessary to lower the dew point of the gas to a temperature below the burial depth of the pipeline, estimated at worst conditions to be 26°F. This will allow us to monitor inlet volume, outlet volume, and linepack to determine if there is any loss. It will also eliminate the need for extensive off-lease "drips" and the attendant operational accounting, and security problems of off-lease storage of liquids. We propose to lower the dew point with a refrigerative-type liquids-extraction plant downstream of the compressor and prior to entry into our pipeline to Patterson Canyon.

The attached schematic (Figure A) illustrates the proposed process and metering points; gas will be metered into the compressor and prior to leaving the unit. A mixed, not refined, natural gas liquid product from the stripping plant will be stored in horizontal tanks and measured prior to shipping off the unit.

A generator will be installed to provide electricity for miscellaneous power requirements including lights, pumps, small process compressors, and control and monitoring equipment.

On May 6, 1983, BLM personnel (Brian Wood and Tricia Powell of Monticello, Utah) and Walt West of Marathon Oil and Marathon personnel met at Tin Cup Mesa to select sites for the proposed installation. These sites are detailed on the attached surveyor's plats, Figure B.

Marathon will contact the BLM office in Monticello, Utah (801-587-2201), 48 hours prior to moving in any earth-moving equipment for the above site work. Good engineering practices will be maintained at all times during construction. Top soil will be saved and small trees and bushes will be piled and disposed of at BLM direction. Sites will be constructed to properly drain. All safety and monitoring devices will be installed during construction. High and low pressure piping required to connect the various equipment will be properly wrapped, bedded, and buried. All surface facilities will be painted a natural color as approved by BLM. Any access roads will be

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (continued):

constructed to BLM Class III road specifications. All produced water will be disposed of in accordance with NTL-2B. The proposed starting date is the Third Quarter, 1983.

The following is a description of the proposed major surface equipment:

1. One gas fired 3-stage, 450 HP gas compressor mounted on a 10' x 25' skid, housed in a 30' x 30' building.

2. Two gas fired 150 KW, 3-phase, synchronous, electric generators, skid mounted on a 12' x 9' skid, housed in a 20' x 25' building.

3. One gas fired refrigerative type liquids extraction unit, comprised of 3 skids. A 10' x 32' skid for water knockout, reboiler, phase separators and propane condenser. A 10' x 25' skid for 175 HP compression of the cooling liquid. A 10' x 15' skid for glycol regeneration of dehydration unit. Electrical requirements of 25-30 KW are expected.

4. Two 30,000 gallon capacity, permanently mounted, NGL mix storage tanks, 60' long and 10' wide each.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS
RECEIVED
MAY 23 1983
SALT LAKE CITY, UTAH

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 [X] 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: 1,950' FNL & 790' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
I-3192

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
1-25

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

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

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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 to open this well to its Desert Creek perforations (5,652' to 5,662' KB) by retrieving the two bridge plugs which are presently set at 5,460' and 5,543' KB. The well will then be put to pump with production from both the Desert Creek Formation and Ismay Formation (perforations from 5,416' to 5,426' KB) being commingled. In order to make this well economical it is required that both of these formations be open to production.

A 34 day pump test of the Ismay Formation produced an average of 30 BOPD, 41 BWPD, and 50 MCFD with the final day producing 40 BO, 40 BW, and 57 MCF.

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

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

SIGNED [signature] TITLE Acting District Manager DATE May 20, 1983

(This space for Federal or State office use)

APPROVED BY [signature] TITLE FOR E. W. GUYNN DISTRICT OIL & GAS SUPERVISOR DATE MAY 27 1983

CONDITIONS OF APPROVAL, IF ANY:

* Must furnish production test after 15 days

*See Instructions on Reverse Side

State - DOGM

geo

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

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 [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

RECEIVED
MAY 23 1983
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.)*

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A 34 day pump test of the Ismay Formation produced an average of 30 BOPD, 41 BWPD, and 50 MCFD with the final day producing 40 BO, 40 BW, and 57 MCF.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 6/7/83
BY: [signature]

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

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

SIGNED [signature] TITLE Acting District Manager DATE May 20, 1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

GEO

Form 9-331
Dec. 1973

CONFIDENTIAL

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-37928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tin Cup Mesa

9. WELL NO.
1-25

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

We propose to open this well to its Desert Creek perforations (5,652' to 5,662' KB) by retrieving the two bridge plugs which are presently set at 5,460' and 5,543' KB. The well will then be put to pump with production from both the Desert Creek Formation and Ismay Formation (perforations from 5,416' to 5,426' KB) being commingled. In order to make this well economical it is required that both of these formations be open to production.

A 34 day pump test of the Ismay Formation produced an average of 30 BOPD, 41 BWPD, and 50 MCFD with the final day producing 40 BO, 40 BW, and 57 MCF.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 6/7/83
BY: [signature]

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

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

SIGNED [signature] TITLE Acting District Manager DATE May 20, 1983

(This space for Federal or State office use)

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

RECEIVED
JUL 1 1983
CASPER DISTRICT
OPERATIONS

*See Instructions on Reverse Side

Form 9-331
Dec. 1973

CONFIDENTIAL

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
U-31928

6. IF INDIAN, ALLOTTEE 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 Form 9-331-C for such proposals.)

7. UNIT AGREEMENT NAME

1. oil well [X] gas well [ ] other

8. FARM OR LEASE NAME
Tin Cup Mesa

2. NAME OF OPERATOR
Marathon Oil Company

9. WELL NO.
1-25

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

10. FIELD OR WILDCAT NAME
Tin Cup

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,950' FNL & 790' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

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

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

PROGRESS REPORT

From: 6-3-83 To: 6-13-83

RECEIVED
JUN 16 1983
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 Doyle L. Jones TITLE District Operations Manager DATE June 14, 1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

2-10-83/
3-3-83 SI.

3-4-83 SI. WILL DROP FROM REPORT UNTIL WORK RESUMES.

6-3-83 RIGGED UP. WSI. SDN.

6-4-83 SI. PRESSURE 350 PSI. BLOW WELL DOWN, REMOVED FLOW LINE CONNECTIONS, PMPD 95 BW DOWN CSG, PMPD CSG DOWN, TBG STOPPED FLOWING, BROKE OUT STUFING, BOY INSTALLED RADICAN RAM, POH W/RODS. CIRC OIL OFF BACKSIDE, UNFLAMED WELL HEAD, PMPD 10 BW 20 MIN BACKSIDE TO KILL GOOD KICK, RELEASED ANCHOR CATCHER, NU-BOP & PRESSURE TESTED TO 1700 PSI, STARTED TO POH W/TBG. SWI, SDN.

6-5-83 FINISHED POH W/TBG & ANCHOR CATCHER, RIH W/TBG & RH FOR MODEL "C" RBP, TAGGED SAND @ 5,465' KB, CLEANED OFF 14', SAND FROM ON TOP OF MODEL "C" RBP SET @ 5,478' KB, LATCHED ONTO RBP, RELEASED & POH. RIH W/JARS, BUMPER-SUB, RETRIEVING HEAD, FOUND TOP OF MODEL "G" RBP @ 5713.42' KB. LATCHED ONTO PLUG, NO MOVEMENT, UNLATCHED FROM MODEL "G" RBP, POH W/TBG & FISHING TOOLS, LEFT TOP OF MODEL "G" RBP @ 5,713.42' KB. SWI, SDN.

6-6-83 NO REPORT.

6-7-83 RAN BIT & SCRAPER, TAGGED @ 5,688' KB. TOP OF RBP @ 5,688', RIH W/12' MUD ANCHOR, S.N. 9 JTS 2-3/8" TBG, BAKER A.C. @ 5,647' 2-3/8" TBG-SET A.C. @ 5,395' IN 18,000# TENSION, SN @ 5,669', RAN 1-1/4" PMP 154 3/4" RODS, SDFN.

6-9-83 SI, COMPLETION UNIT RIGGED DOWN & MOVED OFF LOCATION, WAITING ON TEST SEPARATOR.

6-10-83 HAULED TEST SEPARATOR TO LOCATION. STARTED UNIT PMPG TO TEST AT 5:15 P.M. COMMINGLED ISMAY PERFS 5,416'-5,426' AND DESERT CREEK PERFS 5,652'-5,662'. SI.

6-11-83 TP 50, SEP PRESS 30, MCF 13, OIL 8, WTR 73, TEMP 100°, HRS 22, SPM 9, CHANGED UNIT STROKE FROM 85" TO 72".

6-12-83 TP 55, SEP PRESS 30, MCF, 4, OIL 0, WTR 73, TEMP 95, HRS 24, SPM 9.

6-13-83 TP 55, SEP PRESS 30, MCF 8, OIL 0, WTR 58, TEMP 76°, HRS 22, SPM 1[illegible], REASON FOR DOWNTIME-SEP FUEL PROBLEMS.

Form 9-331
Dec. 1973

CONFIDENTIAL

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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.
1-25

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

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

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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 [X] 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: 1,950' FNL & 790' FWL
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	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) Please See Below		

(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.)*

PROGRESS REPORT

From: 6-14-83 To: 6-24-83

RECEIVED
JUN 29 1983
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 Doyle L. Jones TITLE District Operations Manager DATE June 14, 1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

6-14-83 TP 60, SEP PRESS 30, MCF 25, BO 2, BW 123, TEMP 80°, HRS 24, SPM 9, WC 93.4%, GOR 12,500 SCF/BBL.

6-15-83 TP 100, SEP PRESS 30, MCF 60, BO 27, BW 79, TEMP 100°, HRS 18, SPM 10, WC 75%, GOR 2,222 SCF/BBL. WELL DOWN FOR 6 HRS FOR DOWNHOLE PMP CHANGE. PULLED 1-1/4" X 12' PMP, RAN 1-1/2" X 16 BACK IN WELL. TEFTELLER SHOT FLUID LEVEL 37-1/2 JTS, 1,181' FTF, 4,488' FOP.

6-16-83 TP 180, SEP PRESS 30, MCF 76, BO 54, BW 113, TEMP 95°, HRS 24, SPM 10, WC 68%, GOR 1,407.

6-17-83 TP 180, SCP 32, BO 128, BW 128, MCF 189, TEMP 110°, HRS 24, SPM 10, WC 50%, GOR 1,476 SCF/BBL.

6-18-83 TP 45, SEP PRESS 30, MCF 99, BO 44, BW 145, TF 188 BBL, TEMP 100°, HRS 24, SPM 10, WC 73%, GOR 2,250 SCF/BBL.

6-19-83 TP 60, SEP PRESS 30, MCF 139, BO 66, BW 144, TF 210 BBL, TEMP 100°, HRS 24, SPM 10, WC 69%, GOR 2,106 SCF/BBL.

6-20-83 TP 100, SEP 30, MCF 152, BO 110, BW 136, TF 246 BBL, TEMP 90°, HRS 24, SPM 10, WC 55%, GOR 1,381 SCF/BBL.

6-21-83 TP 85, SEP PRESS 30, MCF 173, BO 98, BW 127, TF 225, TEMP 86°, HRS 24, SPM 10, WC 56%, GOR 1,765 SCF/BBL.

6-22-83 TP 60, TRTR PRESS 27, MCF 92, BO 26, BW 69, TEMP 110°, HRS 24, SPM 10, WC 73%, GOR 3,538 SCF.

6-23-83 TP 95, SEP PRESS 30, MCF 195, BO 90, BW 133, TEMP 100°, HRS 24, SPM 10, WC 60%, GOR 2,166. FLUID LEVEL @ 630' (5,029' FOP).

6-24-83 TP 95, SEP 30, MCF 180, BO 74, BW 128, TF 202 BBL, TEMP 95°, HRS 24, SPM 10, WC 63%, GOR 2,432.

Form 9-331
Dec. 1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CONFIDENTIAL

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

PROGRESS REPORT

From: 6-25-83 To: 7-5-83

Commingled Pump Test

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

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

SIGNED Doyle F. Jones TITLE District Operations Manager DATE 7-6-83

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

6-25-83 TP 85, SEP PRESS 37, MCF 189, BO 66, BW 96, TEMP 100°, HRS 22, SPM 10, WC 59%, GOR 2,863 SCF/BBL.

6-26-83 TP 85, SEP PRESS 39, MCF 118, BO 58, BW 61, TEMP 101°, HRS 16; AJAX ENGINE WENT DOWN DURING RAINSTORM. GOR CALCULATED ON 24 HR TEST, WC 51%, GOR 2,046 SCF/BBL.

6-27-83 TP 80, SEP PRESS 39, MCF 167, BO 61, BW 97, TEMP 98°, HRS 24, SPM 10, WC 61%, GOR 2,237 SCF/BBL, TF 158 BBL.

6-28-83 TP 85, SEP PRESS 39, MCF 159, BO 70, BW 78, TF 148 BBL, WC 53%, GOR 2,271 SCF/BBL, TEMP 100°, SPM 10, HRS 24.

6-29-83 TP 90, SEP PRESS 39, MCF 171, BO 59, BW 72, HRS 22-1/2, TEMP 100°, SPM 10, TF 131 BBL, WC 55%, GOR 2,898 SCF/BBL, (CALC 24 HR RATE - 63 BOPD X 77 BWPD).

6-30-83 TP 85, SEP PRESS 39, MCF 178, BO 63, BW 70, TF 133, WC 53%, GOR 2,825, TEMP 90°, HRS 24, SPM 10.

7-1-83 TP 90,, SEP PRESS 39, MCF 174, BO 53, BW 74, TF 127 BBL, WC 58%, GOR 3,283 SCF/BBL, TEMP 86°, SPM 10, HRS 24.

7-2-83 TP 85, SEP 39, MCF 186, BO 61, BW 73, TF 134 BBL, WC 54%, GOR 3,049 SCF/BBL, TEMP 95°, SPM 10, HRS 24.

7-3-83 TP 100, SEP 39, MCF 174, BO 68, BW 79, TF 147 BBL, WC 54%, GOR 2,558 SCF/BBL, TEMP 100°, SPM 10, HRS 24.

7-4-83 TP 65, TRTR PRESS 27, MCF 79, BO 19, VW 78, TF 97 BBL, WC 80%, GOR 4,158 SCF/BBL, TEMP 112°, SPM 10, HRS 24.

7-5-83 TP 100, SEP 39, MCF 178, BO 56, BW 71, TF 127 BBL, WC 56%, GOR 3,179 SCF/BBL, TF 127 BBL, GOR 3,179 SCF/BBL, TEMP 100°, SPM 10, HRS 24.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

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 [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

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

RECEIVED
JUL 26 1983
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.)*

PROGRESS REPORT

From: ~~7-6-83~~ to: ~~7-20-83~~

Commingled Pump Test

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

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

SIGNED Doyle L Jones TITLE District Operations Manager DATE 7-20-83

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

7-6-83 TP 110, SEP 39, MCF 174, BO 45, BW 61, TF 106, WC 58%, GOR 3,867, TEMP 100°, SPM 10, HRS 23, FLUID LEVEL (143-1/2 JTS) 4,520' (SICP/20#) AFTER 70 MIN AND FLUID LEVEL (165 JTS) 5,198' (SICP/165#) 2ND FL 471' FOP.

7-7-83 TP 90, SEP 39, MCF 167, BO 49, BW 72, TF 121 BBL, WC 60%, GOR 3,408 SCF/BBL, TEMP 105°, SPM 10, HRS 24.

7-8-83 TP 95, SEP 39, MCF 171, BO 48, BW 72, TF 120 BBL, WC 60%, GOR 3,653 SCF/BBL, TEMP 90°, SPM 10, HRS.

7-9-83 TP 100, SEP 39, MCF 178, BO 48, BW 73, TF 121 BBL, WC 60%, GOR 3,708 SCF/BBL, TEMP 100°, SPM 10, HRS 24.

7-10-83 TP 90, SEP 39, MCF 174, BO 54, BW 74, TF 128, WC 58%, GOR 3,222 SCF/BBL, TEMP 100°, SPM 10, HRS 24.

7-11-83 TP 100, SEP 39, MCF 171, BO 37, BW 60, TF 97, WC 62%, GOR 4,275 SCF/BBL, TEMP 100°, SPM 10, HRS 22.

7-12-83 TP 90, SEP 39, MCF 156, BO 35, BW 77, TF 112, WC 69%, GOR 4,457 SCF/BBL, TEMP 112°, SPM 10, HRS 10.

7-13-83 TP 80, SEP 39, MCF 148, BO 30, BW 56, TF 86, WC 65%, GOR 4,933 SCF/BBL, TEMP 100°, SPM 10, HRS 23. DOWN 1 HR TO SHOOT FLUID LEVELS. SHOT FLUID LEVEL 5,701' (SEATING NIPPLE @ 5,669').

7-14-83 TP 75, TRTR PRESS 39, MCF 120, BO 29, BW 53, TF 82 BBL, WC 65%, GOR 4,137 SCF/BBL, TEMP 100°, SPM 10, HRS 24.

7-15-83 TP 70, SEP 39, MCF 116, BO 29M BW 59, TF 88 BBL, WC 67%, GOR 4,000 SCF/BBL, TEMP 100°, SPM 10, HRS 24.

7-16-83 BO 25, BW 68, TF 93 BBL, WC 73%, MCF 108, GOR 4,320, HRS 24.

7-17-83 BO 20, BW 48, TF 68 BBL, WC 70%, MCF 95, HRS 24, SPM 10.

7-18-83 BO 18, BW 47, TF 65 BBL, WC 72%, MCF 93, GOR 5,166, HRS 24, SPM 10.

7-19-83 BO 26, BW 48, TF 74 BBL, WC 76%, MCF 85, GOR 3,269, HRS 24, SPM 10.

7-20-83 BO 22, BW 44, TF 66 BBL, WC 66%, MCF 89, GOR 4,405, HRS 24, SPM 10. FLUID LEVEL 189 JTS X 31.4' = 5,935' (SN 5,669' KB).

Form 9–331
Dec. 1973

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

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

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

PROGRESS REPORT

From: 7-21-83 To: 8-9-83

Commingled Pump Test

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

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

SIGNED Doyle L. Jones, by Jesse E. Oneal TITLE District Operations Manager DATE 8-9-83

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

7-21-83 BO 8, BW 43, TF 51 BBL, WC 84%, MCF 85, GOR 10,625, HRS 22, SPM 10, WELL DOWN 2 HRS DURING RAIN STORM.

7-22-83 BO 13, BW 39, TF 52 BBL, WC 75%, MCF 83, GOR 6,384, HRS 24, SPM 10.

7-23-83 BO 5, BW 15, TF 20 BBL, WC 75%, MCF 79, GOR 15,800, HRS 19, SPM 10. RAIN CAUSED ENGINE ON UNIT TO GO DOWN.

7-24-83 BO 2, BW 28, TF 30 BBL, WC 93%, MCF 64, GOR 32,000, HRS 24, SPM 10.

7-25-83 BO 2, BW 38, TF 40 BBL, WC 95%, MCF 67, GOR 33,500, HRS 24, SPM 10.

7-26-83 BO 21, BW 39, TF 60 BBL, WC 65%, MCF 65, GOR 3,095, HRS 24, SPM 10.

7-27-83 BO 5, BW 29, TF 34 BBL, WC 85%, MCF 46, GOR 9,200, HRS 24, SPM 10.

7-28-83 BO 13, BW 33, TF 46 BBL, WC 71%, MCF 60, GOR 4,615, HRS 24, SPM 10. FLUID LEVEL = 177 JTS X 29.96 = 5,303 (366' FOP) TBG ANCHOR @ 5,395' KB.

7-29-83 BO 1, BW 37, TF 38 BBL, WC 97%, MCF 64, GOR 64,000, HRS 23, SPM 10. PMPD 65 BW MIXED W/1 GAL HALLIBURTON BE 4 BACTERIASIDE DOWN CSG.

7-30-83 BO 3, BW 31, TF 34 BBL, WC 91%, MCF 54, GOR 1,800, HRS 24, SPM 10.

7-31-83 BO 0, BW 3, TF 3 BBL, WC 100%, MCF 32, HRS 21, SPM 10. RUPTURE DISC ON TRTR BLEW CAUSING 3 HRS DOWNTIME. WELL DID NOT PMP UP AFTER REPAIRE WERE MADE & UNIT STARTED.

8-1-83 BO 0, BW 0, MCF 18. WELL WILL NOT PUMP UP SINCE BLOWN RUPTURE DISC ON TRTR CAUSED WELL TO BE DOWN FOR 3 HRS.

8-2-83 BO 0, BW 0, MCF 45. LOWERED PUMP, TAGGED BOTTOM & SPACED OUT PUMP, HOWEVER, WELL DID NOT PUMP UP.

8-3-83 MOVED BIG "A" WELL SERVICE UNIT ON LOCATION. R.U. & POOH W/RODS & PMP. RIH W/NEW PMP & ROD STRING. STARTED WELL PMPG. WELL PMPD FROM 5:30 P.M. DID NOT PMP UP.

8-4-83 HAD TRUCK LOAD TBG W/20 BBL OF PROD WTR. CLOSED VALVE TO TEST SEP & BLED AIR & GAS OFF OF TBG WHILE PMPG WELL. WELL BEGAN PMPG. LEFT WELL PMP OVERNIGHT. PMPD 38 BW IN 14 HRS. TOTAL LOAD FLUID = 105 BBL.

8-5-83 BO 0, BW 68, MCF 39, 24 HRS.

8-6-83 BO 0, BW 6, TF 6 BBL, WC 100%, MCF 15, HRS 24.

8-7-83 BO 1, BW 43, TF 44 BBL, WC 98%, MF 38, GOR 3,800, HRS 24.

8-8-83 BO 3, BW 21, TF 24 BBL, WC 87%, MCF 25, GOR 8,333, HRS 24.

8-9-83 BO 0, BW 12, MCF 19, HRS 24.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

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

CONFIDENTIAL

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.)*

PROGRESS REPORT

From: 8-10-83 To: 8-25-83

Commingled Pump Test

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

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

SIGNED Doyle L Jones TITLE District Operations Manager DATE 8-26-83

(This space for Federal or State office use)

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

RECEIVED
SEP - 1 1983
DIV. OF OIL, GAS & MINING

*See Instructions on Reverse Side

TINCUP MESA #1-25

8-10-83 BO 0, BW 3, MCF 11, HRS 24. FLUID LEVEL = 134.5 JTS X 29.96' = 4,029.62 (1,640' FOP).

8-11-83 BO 0, BW 1, MCF 7, HRS 16. MOVED WORKOVER UNIT ON LOCATION. RU, PULLED RODS & PUMP. REMOVED TREE, INSTALLED BOP, RELEASED ANCHOR CATCHER & PULLED TBG. SHUT WELL IN, SDN.

8-12-83 RIH W/MUD ANCHOR, SEATING NIPPLE, ANCHOR CATCHER & TBG STRING. SET ANCHOR CATCHER IN 18,000# TENSION. REMOVED BOP. NIPPLED UP TREE. RIH W/ "TRICO" RWBC 2" X 1-1/2" X 16' PUMP, ROD STRING & POLISHED ROD. SEATED & SPACED OUT PUMP. LOADED TBG W/WATER & PRESS TESTED PUMP & TBG TO 300#. PUT WELL ON PUMP. (5:00 P.M. REPORT: BO 0, BW 1, MCF 8, HRS 1-1/2. RD UNIT & PREPARED TO MOVE TO 3-23.

8-13-83 BO 42, BW 97, BF 139, WC 69%, MCF 105, GOR 2,500; PUMP TO PRODUCTION 24 HRS 10 SPM.

8-14-83 BO 57, BW 82, BF 139, WC 58%, MCF 97, GOR 1,701; PUMP TO PRODUCTION 24 HRS.

8-15-83 BO 31, BW 108, BF 139, WC 77%, MCF 94, GOR 3,032; PUMP TO PRODUCTION 24 HOURS 10 SPM.

8-16-83 BO 32, BW 120, BF 152, WC 78%, MCF 100, GOR 3,125.

8-17-83 FLUID SHOT FTF 5,153, FOP 526', CP 105. BO 42, BW 93, BF 135, WC 68%, MCF 116, GOR 2,761, 24 HRS.

8-18-83 BO 41, BW 98, BF 139, WC 70%, MCF 108, GOR 2,634.

8-19-83 BO 48, BW 97, BF 145, WC 66%, MCF 104, GOR 2,166.

8-20-83 BO 50, BW 92, BF 142, WC 64%, MCF 85, GOR 1,700.

8-21-83 BO 30, BW 65, BF 95, WC 68%, MCF 72, GOR 2,400.

8-22-83 BO 25, BW 58, BF 83, WC 69%, MCF 72, GOR 2,880.

8-23-83 BO 22, BW 52, BF 74, WC 70%, MCF 66, GOR 3,000.

8-24-83 BO 18, BW 62, TF 80, WC 98%, MCF 64, GOR 3,556, HRS 24. FLUID LEVEL CSG = 20#, 188.5 JTS X 29.96 = 5,647.46.

8-25-83 BO 18, BW 42, TF 60, WC 70%, MCF 62, GOR 3,444, HRS 24.

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

b. TYPE OF COMPLETION: Second Completion
NEW WELL [ ] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [✓] 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 and in accordance with any State requirements*)*
At surface: 1,950' FNL & 790' FWL SW NW
At top prod. interval reported below
At total depth

DIVISION OF OIL, GAS & MINING

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.: 1-25
10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 25, T38S, R25E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-037-30690	6-29-81	San Juan	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
7-18-81	8-15-81	9-11-83	4,985' GL 4,999' KB	--

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5,714'	5,675'	Two	→	0' - 5,714'	0

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Ismay 5,416' - 5,426', Desert Creek 5,652' - 5,662

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DLL-SFL, BHC Sonic, FDC-CNL, CBL-VDL

27. WAS WELL CORED: 5 Cores

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	1,557'	12-1/4"	640 sx	None
7"	23# & 26#	5,712'	8-3/4"	995 sx	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		None		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	5,667'	SN @ 5,669'
		TA @ 5,395'

31. PERFORATION RECORD (*Interval, size and number*)
Ismay 5,416' - 5,426 w/ 4-0.32" JSPE
Desert Creek Creek 5,652'-5,662' 4-0.32" JSPE, 40 Shots total

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
9-11-83	Pump 10 SPM x 72"	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-11-83	24	--	→	23	52	51	2,239

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
43 psig	43 psig	→	23	52	51	gas .700, Oil 45°

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

TEST WITNESSED BY: E. Nelson

35. LIST OF ATTACHMENTS
Second completion (open Desert Creek Fm.) to commingling Prod. with Ismay.

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

SIGNED Doyle L. Jones by J. O'Neal TITLE District Operations Manager DATE September 13, 1983

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Shinarump	2,276'	2,339'	
Moenkopi	2,339'	2,384'	
Cutler	2,384	4,229'	
Honaker Trail	4,229'	5,164'	
Paradox	5,164'	5,322'	
U. Ismay	5,322'	5,485'	
Hovenweep	5,485	5,515'	
L. Ismay	5,515'	5,565'	
Gothic Shale	5,565'	5,573'	
Desert Creek	5,573'	5,673'	
Chimney Rock	5,673'	5,695'	
Akah	5,695'	5,714' TD	

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Shinarump	2,276'	
Moenkopi	2,339'	
Cutler	2,384'	
Honaker Trail	4,229'	
Paradox	5,164'	
U. Ismay	5,322'	
Hovenweep	5,485'	
L. Ismay	5,515'	
Gothic Shale	5,565'	
Desert Creek	5,573'	
Chimney Rock	5,673'	
Akah	5,695'	

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

Form 9-331
Dec. 1973

CONFIDENTIAL

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [X] 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

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

(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.)*

PROGRESS REPORT

RECEIVED
SEP 19 1983
DIVISION OF
OIL, GAS & MINING

From: 8-26-83 To: 9-13-83

Final Report

Commingled Pump Test

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

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

SIGNED Doyle L. Jones TITLE District Operations Manager DATE 9-15-83

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

TINCUP MESA #1-25

8-26-83 BO 19, BW 58, TF 77, WC 75%, MCF 60, GOR 3,157, HRS 24.

8-27-83 BO 17, BW 52, TF 69 BBL, WC 75%, MCF 58, GOR 3,411, HRS 24.

8-28-83 BO 18, BW 42, TF 60 BBL, WC 70%, MCF 54, GOR 3,000, HRS 24.

8-29-83 BO 16, BW 36, TF 52 BBL, WC 68%, MCF 56, GOR 3,500, HRS 24.

8-30-83 BO 17, BW 37, TF 54 BBL, WC 68%, MCF 58, GOR 3,411, HRS 24.

8-31-83 BO 18, BW 43, TF 61 BBL, WC 70%, MCF 54, GOR 3,000, HRS 24.

9-1-83 BO 13, BW 33, TF 46 BBL, WC 72%, MCF 44, GOR 1,693, HRS 24. FLUID LEVEL = 5,645, CP 43, TF 43, SPM 10. PMPD 160 BBL OF FRESH WATER DOWN CSG, TREATED W/6 GAL BACTERIASIDE.

9-2-83 BO 18, BW 108, TF 126 BBL, WC 86%, MCF 60, GOR 3,333, HRS 24.

9-3-83 BO 15, BW 53, BF 68, WC 77%, MCF 55, GOR 3,666.

9-4-83 BO 19, BW 42, BF 61, WC 68%, MCF 53, GOR 2,789.

9-5-83/
9-6-83 WELL DOWN, FAN BELT BROKE.

9-7-83 BO 1.6, BW 4, TF 5.6 BBL, WC 71%, MCF 111, GOR 69,375, HRS 3. REASON FOR DOWNTIME SURFACE EQUIPMENT REPAIRS.

9-8-83 BO 15, BW 105, TF 120 BBL, WC 87%, MCF 86, GOR 5,733, HRS 24.

9-9-83 BO 35, BW 65, TF 100 BBL, WC 65%, MCF 57, GOR 1,628, HRS 24. FLUID LEVEL = FTF = 5,639', FOP 8', CP 45, TP 45.

9-10-83 BO 20, BW 49, TF 69 BBL, WC 71%, MCF 52, GOR 2,600, HRS 24.

9-11-83 BO 18, BW 46, TF 64 BBL, WC 71%, MCF 50, GOR 2,777, HRS 24. FLUID LEVEL = FTF = 5,634, FOP 13', CP 43, TP 43, SPM 10.

9-12-83 BO 17, BW 43, TF 60 BBL, WC 71%, MCF 47, GOR 2,764, HRS 24. WELL COMPLETED AS OF 9-11-83 (4 DAY AVG); 23 BOPD, 51 BWPD, 52 MCFD (74 BFPD, 2,239 GOR, 13 FOP, (10 SPM X 72").

9-13-83 BO 17, BW 44, TF 61 BBL, WC 72%, MCF 46, GOR 3,538, HRS 18. <u>FINAL REPORT.</u>

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [XX] 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: San Juan
13. STATE: 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	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) see below.		

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

RECEIVED
SEP 30 1983
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 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

SIGNED Doyle L. Jones TITLE District Operations Manager DATE September 27, 1983

(This space for Federal or State office use)

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

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/30/83
BY: [signature]

*See Instructions on Reverse Side

Exhibit "O"

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Water Rights

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dee C. Hansen, State Engineer

74 West Main Street • P.O. Box 718 • Price, UT 84501 • 801-637-1303

September 29, 1983

Marathon Oil
Attn: Walt West
P.O. Box 2659
Casper, Wyoming 82602

Dear Walt:

Enclosed please find the information that you requested by phone today. Please feel free to contact this office if we can be of any further service to you.

Sincerely,

Louis M. Chadwick

Louis M. Chadwick
Hydrologic Engineer

Enclosures

LMC/mjk

RECEIVED
OCT - 1 1983
CASPER DISTRICT
OPERATIONS
GOVERNMENT COMPLIANCE

Form DOGC-4

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
533-5771

State Lease No.
Federal Lease No. 71-031928
Indian Lease No.
Fee & Pat.

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY SAN JUAN FIELD/LEASE TIN CUP MESA

The following is a correct report of operations and production (including drilling and producing wells) for the month of: OCTOBER, 19 83.

Agent's Address P. O. Box 120
Casper, Wyoming 82602

Phone No. 307-235-2511

Company Marathon Oil Company
Signed
Title Section Supervisor

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	API NUMBER/REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
26-NWNE 30762	38S	25E	3	0	0	--	0		NONE	
25-SWNW 30690	38S	25E	1	0	0	--	0		NONE	
23-SESW 30808	38S	25E	2	0	0	--	0		NONE	
23-SWSW 30815	38S	25E	3	0	0	--	0		NONE	

* THIS WELL IS NO LONGER CONFIDENTIAL

GAS: (MCF)
Sold 0
Flared/Vented 0
Used On/Off Lease 0

OIL or CONDENSATE: (To be reported in Barrels)
On hand at beginning of month 236
Produced during month 0
Sold during month 0
Unavoidably lost 0
Reason: 0
On hand at end of month 236

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

Note: The API number must be listed on each well.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well ☐ gas well ☐ other Surface Facility
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
--
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. 25, T38S, R25E
12. COUNTY OR PARISH: San Juan
13. STATE: 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	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Please see attached.		

(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.

RECEIVED
OCT 3 1983
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 Doyle L. Jones by J. O'Neal TITLE District Operations Manager DATE September 28, 1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

17. We propose to set a 10' x 40' skid-mounted building to serve as an office and emergency living quarters for the Tin Cup Mesa Field.

We plan to put this building to the east and south of the approved area of the gas compressor, which is just off Well #1-25 location (see approved Sundry Notice dated June 10, 1983).

This facility will have electric hookups and gas heat. Toilet facilities will be provided by self-contained units which will be equipped with chemical holding tanks. These units will be maintained on a regular basis. All potable water used on location will be carried to the location.

On September 22, 1983, Mr. Brian Wood, BLM, and Walt West of Marathon Oil Company met on location and agreed to the surface area for this facility.

Form 9-331
Dec. 1973

CONFIDENTIAL

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well ☐ gas well ☐ other Step Rate Injection Tests
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: (1-25) 1950' FNL & 790' FWL
   AT TOP PROD. INTERVAL: (3-23) 1555.7' FSL &
   AT TOTAL DEPTH: 4014.20' FEL
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.: 1-25 & 3-23
10. FIELD OR WILDCAT NAME: Tin Cup Mesa
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: (1-25) Sec. 25, T38S, R25E (3-23) Sec. 23, T38S, R25E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah
14. API NO.: (1-25) 43-037-30690 (3-23) 43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD): (1-25) 4985' GL 4999' KB (3-23) 5184' GL 5197' 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	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Please see attachment.		

(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)

RECEIVED
OCT 18 1983
DIVISION OF
OIL, GAS & MINING

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10/25/83
BY: [illegible]

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

18. I hereby certify that the foregoing is true and correct
SIGNED Doyle T. Jones TITLE District Operations Manager DATE October 13, 1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

10/13

Step Rate Injection Tests
17.

We propose the following tests:

Step rate injectivity tests to determine the feasibility of water injection in the Tin Cup Mesa Field, Ismay Formation. The tests will determine formation fracture pressure at a corresponding injection rate.

The injectivity tests will be performed on wells #1-25 and #3-23, and fresh water will be used. The existing tubing and rod strings will be pulled and the tubing rerun with a packer. Several different injection rates will be used with at least two rates above frac pressure. Both surface and downhole pressure will be measured. Tin Cup Mesa #1-25 will require setting a cement retainer at 5545' KB and the Desert Creek perforations (5652 - 5662' KB) squeezed with 100 sacks cement.

This proposed testing was discussed between Mr. Bill Martens, BLM, Salt Lake City Office and Walt West, Marathon Oil Company, Casper WY.

Work will commence upon approval.

SLL 10/13

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

CONFIDENTIAL

1. oil well XX 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: 1,950' FNL & 790' FWL
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.
1-25

10. FIELD OR WILDCAT NAME
Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 25, T38S, R25E

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

14. API NO.
43-037-30690

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4,985' GL

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

RECEIVED
OCT 26 1983
DIVISION OF
OIL, GAS & MINING

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

(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 to test the Cutler Formation to determine available water rate and composition for a possible future water injection source well to be completed in that formation. The test will be performed in the Tin Cup Mesa #1-25 well and will include the following steps:

1. Bridge plug isolation of the productive Ismay Formation.
2. Perforation of a 10 foot zone of the Cutler Formation from 3190' KB to 3200' KB.
3. Flow test the Cutler perforations to establish flow rates and obtain water samples.
4. Cement squeeze the Cutler perforations.
5. Drill out cement, remove bridge plug, put Ismay Formation back on production.

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

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

SIGNED Doyle F. Moss TITLE District Operations Manager DATE October 24, 1983

(This space for Federal or State office use)

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

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 11/7/83
BY: [signature]

*See Instructions on Reverse Side

ROC 10/24/83

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well [XX] 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: San Juan
13. STATE: 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	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) see below		

RECEIVED
NOV 25 1983
DIV. 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.)*

We request and extension of time of 15 days beyond the original 30-day approval request. See attached copies of original Federal and State approvals.

This request is made due to the fact that materials were not delivered on dates as promised by vendors, causing delays in construction.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 11/28/83
BY: [illegible]

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

18. I hereby certify that the foregoing is true and correct
SIGNED Doyle F. Lemon TITLE District Operations Manager DATE November 22, 1983

(This space for Federal or State office use)

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

RECEIVED
DEC 1 1983
CASPER DISTRICT
OPERATIONS
GOVERNMENT COMPLIANCE

*See Instructions on Reverse Side

JCP

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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 ☐ GAS WELL ☐ OTHER Gas Surface Facility

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.* See also space 17 below.) At surface --

14. PERMIT NO.: --

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

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.: -- 1-25 etc

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: San Juan

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Please See Below			X				

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

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

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 L. 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

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.

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

January 31, 1984

Attn Walt West
Marathon Oil Company
P.O. Box 2659
Casper WY 81602

RE: Well No. Tin Cup Mesa #1-25
API #43-037-30690
1950' FNL, 790' FWL SW/NW
Sec. 25, T. 38S, R. 25E.
San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office September 13, 1983 on the above referred to well, indicates the following electric logs were run: DLL-SFL, BHC SONIC, FDC-CNL and CBL-VDL. 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.

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

Your prompt attention to the above will be greatly appreciated.

Respectfully,

Claudia Jones

Claudia Jones
Well Records Specialist

CJ/cj

an equal opportunity employer • please recycle paper

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

January 31, 1984

2-3-84 Walt,
No logs have been run since the first completion of this well (1-26-83).
Elizabeth C. Shathouse

Attn Walt West
Marathon Oil Company
P.O. Box 2659
Casper WY 81602

RE: Well No. Tin Cup Mesa #1-25
API #43-037-30690
1950' FNL, 790' FWL SW/NW
Sec. 25, T. 38S, R. 25E.
San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office September 13, 1983 on the above referred to well, indicates the following electric logs were run: DLL-SFL, BHC SONIC, FDC-CNL and CBL-VDL. As of todays date, this office has not received these logs.

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

Your prompt attention to the above will be greatly appreciated.

Respectfully,

Claudia Jones

Claudia Jones
Well Records Specialist

RECEIVED
FEB 3 1984
CASPER DISTRICT
OPERATIONS
GOVERNMENT COMPLIANCE

CJ/cj

an equal opportunity employer • please recycle paper

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
...le A. Reynolds, Executive Director
... A. (Jim) Shirazi, Division Director

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

February 10, 1984

Newspaper Agency
Legal Advertizing
Mezzanine Floor
143 South Main Street
Salt Lake City, Utah 84111

RE: CAUSE NO. UCI-033

Gentlemen:

Attached hereto is a Notice of Application for Administrative Approval, 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 but no later than the 16th day of Feb. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Marlayne Poulsen
for

MARJORIE L. LARSON
Administrative Assistant

an equal opportunity employer • please recycle paper

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

February 10, 1984

San Juan Record
Legal Advertizing
Monticello, Utah 84535

RE: CAUSE NO. UIC-033

Gentlemen:

Attached hereto is a Notice of Application for Administrative Approval, 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 but no later than the 16th day of Feb. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Marlayne Poulsen
for

MARJORIE L. LARSON
Administrative Assistant

CAUSE NO. UIC-033

Newspaper Agency
San Juan Record

Marathon Oil Company
PO Box 2659
Casper, WY 82602

Ut. Dept. of Health
Water Pollution Control
Attn: Jerry Riding
150 W.N. Temple
Salt Lake City, Utah

U.S. Envirnmental Protection Ageny
1860 Lincoln Street
Attn: Mike Strieby
Denver, CO 80295

Minerals Management Service
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City,Utah 84104

Mr. Richard Perkins
PO Box 592
Balnding, UT 84511

Mr. Charles Hardy Redd
Box 247
La Sa., UT 84530

Marlayne Poulsen
February 10,1984

Affidavit of Publication

ADM-358

STATE OF UTAH,

County of Salt Lake ss.

Cheryl Gierloff

Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto

Notice of Hearing - Application of

Marathon Oil Co.

was published in said newspaper on

February 16, 1984

Cheryl Gierloff
Legal Advertising Clerk

BEFORE THE DIVISION OF OIL, GAs and mining
Room 4241 State Office Building
Salt Lake City, Utah 84114
CAYSE #1, UIC-033

IN THE MATTER OF THE APPLICATION OF MARATHON OIL COMPANY FOR ADMINISTRATIVE APPROVAL TO INJECT WATER INTO CERTAIN WELLS LOCATED IN SAN JUAN COUNTY, UTAH

THE STATE OF UTAH TO ALL PERSONS, OWNERS PRODUCERS, OPERATORS, PURCHASERS AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTIES IN SAN JUAN COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Marathon Oil Company, P. O. Box 2409, Casper, WY 82602 is requesting that the Division authorize the approval to convert the well mentioned below, to water injection wells as follows:

Township 38 South, Range 25 East
Sec. 25, Well # T-25 SW/NW
Township 38 South, Range 25 East
Sec. 23, Well # 323 SW/SW
INJECTION ZONE: (WELL #T-25) Ismay 5416' to 5482'
(WELL #323) Ismay 5578' to 5647'
MAXIMUM INJECTION PRESSURE: 3,408 psi
MAXIMUM INJECTION RATE: 2000 barrels of water per day

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
MARJORIE L. LARSON
Administrative Assistant

D-18

Subscribed and sworn to before me this 1st day of March A.D. 1984

Joyce L. Marlar
Notary Public

My Commission Expires

July 23, 1986

NOTARY PUBLIC
JOYCE L. MARLAR
STATE OF UTAH

Affidavit of Publication

ADM-358

STATE OF UTAH,

ss.

County of Salt Lake

Cheryl Gierloff

BEFORE THE DIVISION OF OIL, GAS and mining
Room 4241 State Office Building
Salt Lake City, Utah 84114
CAUSE NO. UIC-033

IN THE MATTER OF THE APPLICATION OF MARATHON OIL COMPANY FOR ADMINISTRATIVE APPROVAL TO INJECT WATER INTO CERTAIN WELLS LOCATED IN SAN JUAN COUNTY, UTAH

THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS, PURCHASERS AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SAN JUAN COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Marathon Oil Company P. O. Box 2659, Casper, WY 82602 is requesting that the Division authorize the approval to convert the well mentioned below, to water injection wells as follows:

Township 38 South, Range 25 East
Sec. 25, Well # 1-25 SW/NW
Township 38 South, Range 25 East
Sec. 23, Well # 3-23 SW/SW

INJECTION ZONE: (WELL #1-25) Ismay 5414' to 5482'
(WELL #3-23) Ismay 5578' to 5647'

MAXIMUM INJECTION PRESSURE: 3,600 psi

MAXIMUM INJECTION RATE: 2000 barrels of water per day

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
MARJORIE L. LARSON
Administrative Assistant

D-18

Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto

Notice of Hearing - Application of

Marathon Oil Co.

was published in said newspaper on

February 16, 1984

Cheryl Gierloff
Legal Advertising Clerk

Subscribed and sworn to before me this 1st day of March A.D. 19 84

Joyce L. Marlar
Notary Public

My Commission Expires

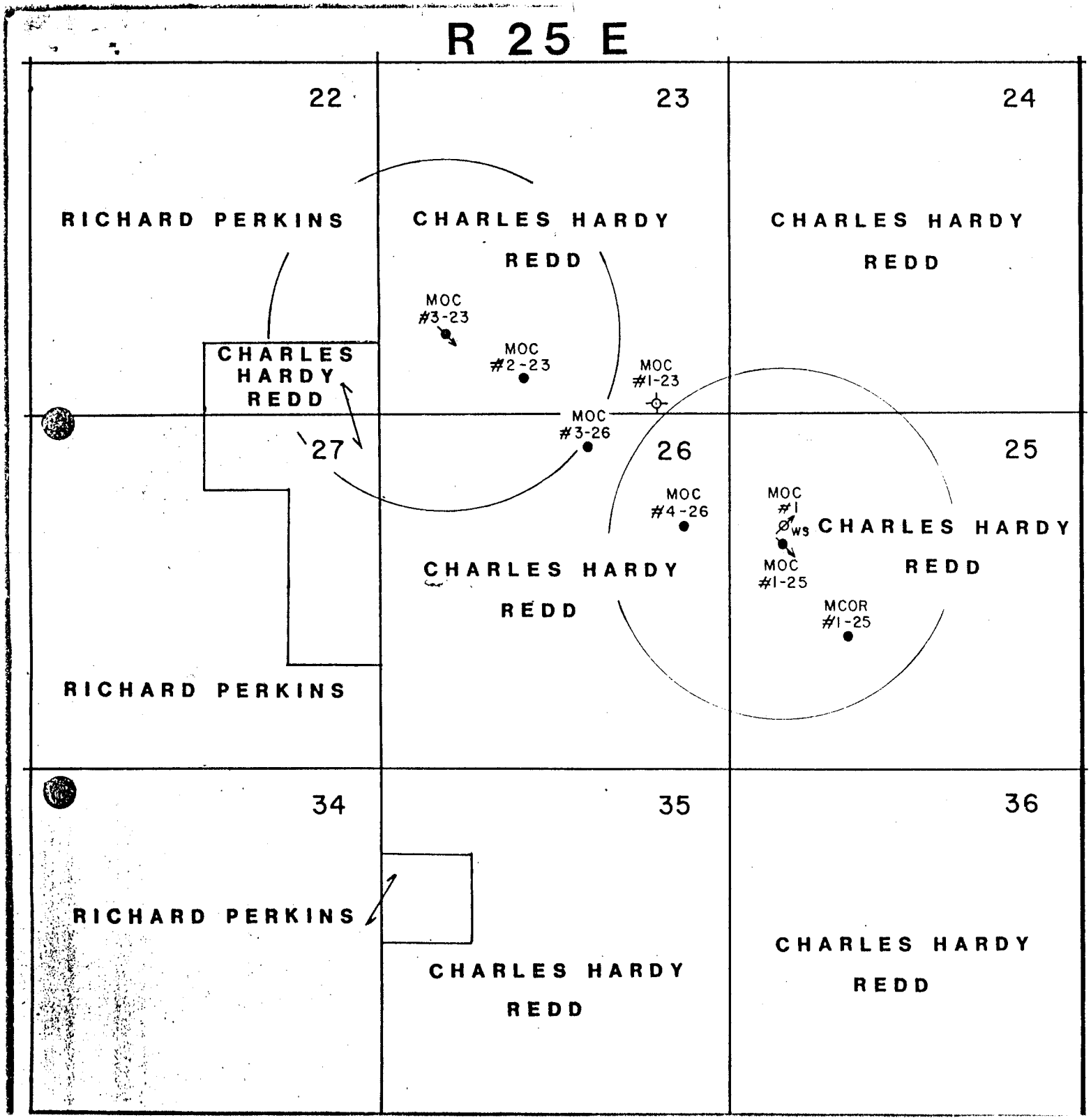
July 23, 1986

RECEIVED
MAR 5 1984
DIVISION OF
OIL, GAS & MINING

JOYCE L. MARLAR
STATE OF UTAH

LIST OF EXHIBITS

Exhibit	
A	Form DOGM-UIC-1 - #1-25 Tin Cup Mesa
B	Form DOGM-UIC-1 - #3-23 Tin Cup Mesa
C	Schedule of Mineral and Surface Grazing Ownership
D	DLL-MSFL-GR - #1-25 Tin Cup Mesa
E	CNL-FDC-GR - #1-25 Tin Cup Mesa
F	CBL-GR - #1-25 Tin Cup Mesa
G	DLL-MSFL-GR - #3-23 Tin Cup Mesa
H	CNL-FDC-GR - #3-23 Tin Cup Mesa
I	CBL-GR - #3-23 Tin Cup Mesa
J	Schematic Diagram of Class II Well - #1-25 Tin Cup Mesa
K	Schematic Diagram of Class II Well - #3-23 Tin Cup Mesa
L	Fracture Pressure - #1-25 Tin Cup Mesa
M	Fracture Pressure - #3-23 Tin Cup Mesa
N	Summary of Water Analyses at Tin Cup Mesa, Utah
O	Artesian Well Information in the Tin Cup Mesa Area



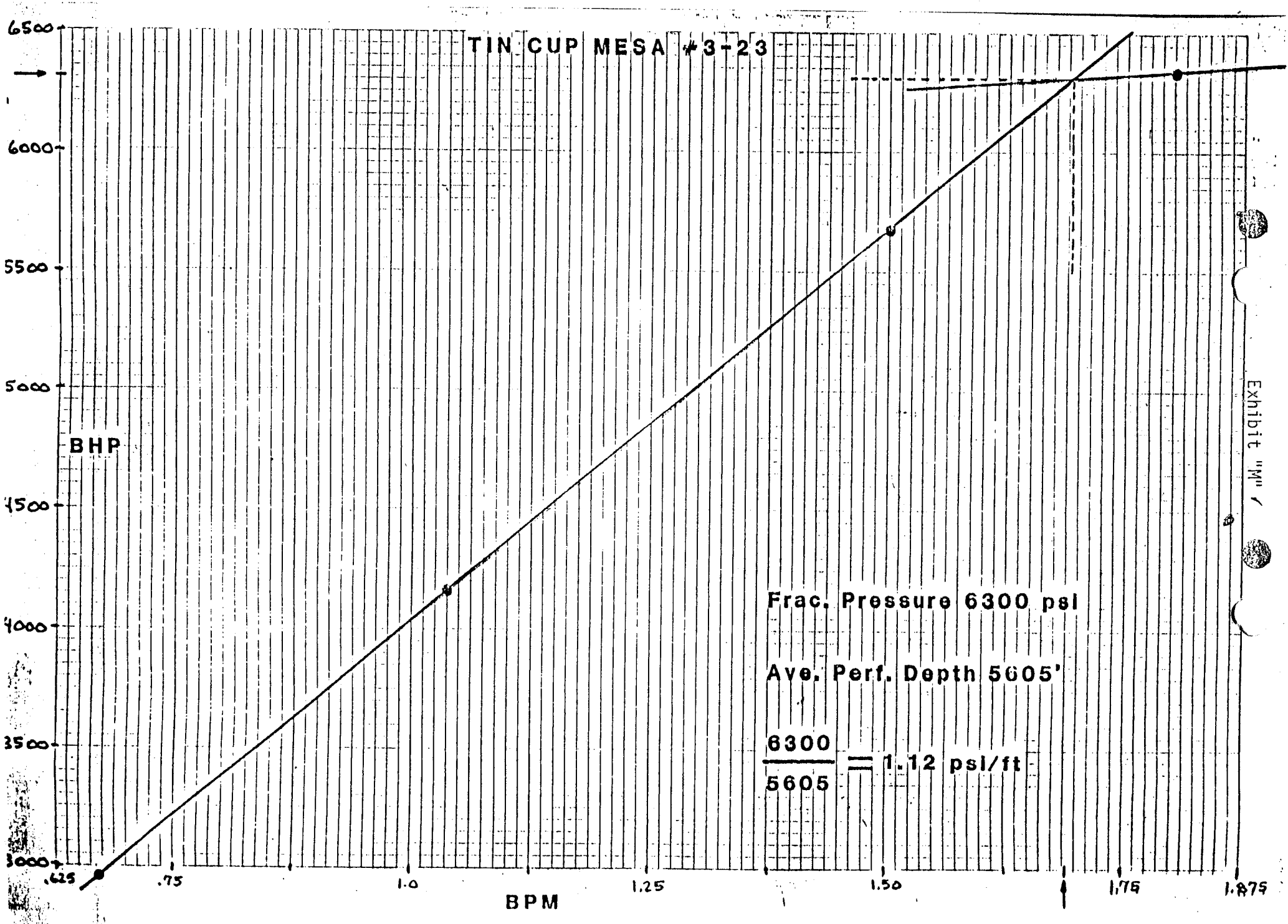
MOC 1-23 T.D. 5810'
MOC 2-23 T.D. 5804'
MOC 3-23 T.D. 5895'
MOC 1-25 T.D. 5714'
MOC 3-26 T.D. 5780'
MOC 4-26 T.D. 5815'
MCOR 1-25 T.V.D. 5631
MOC 1 WS P.T.D. 3400

T 38 S

TIN CUP MESA

SAN JUAN CO., UTAI

SURFACE RIGHTS


TIN CUP MESA #3-23
6500
6000
5500
5000
4500
4000
3500
3000
BHP
.625
.75
1.0
1.25
1.50
1.75
1.875
BPM
Frac. Pressure 6300 psi
Ave. Perf. Depth 5605'
6300 / 5605 = 1.12 psi/ft
Exhibit "M"

R 25 E

MOC 1-23 T.D. 5810'
MOC 2-23 T.D. 5804'
MOC 3-23 T.D. 5895'
MOC 1-25 T.D. 5714'
MOC 3-26 T.D. 5780'
MOC 4-26 T.D. 5815'
MCOR 1-25 T.V.D. 5631'
MOC 1 WS P.T.D. 3400

22

SURFACE OWNER : USA
LESSEE : R. PERKINS

23

SURFACE OWNER : USA
LESSEE : C.H. REDD

24

SURFACE OWNER : USA
LESSEE : C.H. REDD

MOC #3-23

MOC #2-23

MOC #1-23

MOC #3-26

SURFACE OWNER : USA
LESSEE : C.H. REDD

27

26

MOC #4-26

SURFACE OWNER : USA
LESSEE : C.H. REDD

25

MOC #1 WS

MOC #1-25

MCOR #1-25

SURFACE OWNER : USA
LESSEE : C.H. REDD

T 38 S

SURFACE OWNER : USA
LESSEE : R.PERKINS

34

SURFACE OWNER : USA
LESSEE : R. PERKINS

35

SURFACE OWNER : USA

LESSEE : C.H. REDD

36

SURFACE OWNER : STATE OF UTAH
LESSEE : C.H. REDD

TIN CUP MESA

SAN JUAN CO., UTAH

SURFACE RIGHTS

R 25 E

MOC 1-23 T.D. 5810
MOC 2-23 T.D. 5804'
MOC 3-23 T.D. 5895'
MOC 1-25 T.D. 5714'
MOC 3-26 T.D. 5780'
MOC 4-26 T.D. 5815'
MCOR 1-25 T.V.D. 563
MOC 1 WS P.T.D. 340

22

SURFACE OWNER : USA
LESSEE : R. PERKINS
(GRAZING RIGHTS ONLY)

23

SURFACE OWNER : USA
LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

24

SURFACE OWNER : USA
LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

MOC #3-23
MOC #2-23
MOC #1-23
MOC #3-26
MOC #4-26

SURFACE OWNER : USA
LESSEE : C.H. REDD
(GRO)

27

26

SURFACE OWNER : USA
LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

25

MOC #1 Ø WS
MOC #1-25
MCOR #1-25

SURFACE OWNER : USA
LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

SURFACE OWNER : USA
LESSEE : R.PERKINS
(GRAZING RIGHTS ONLY)

T 38 S

34

SURFACE OWNER : USA
LESSEE : R. PERKINS
(GRAZING RIGHTS ONLY)

35

SURFACE OWNER : USA

LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

36

SURFACE OWNER : STATE OF UTAH
LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

TIN CUP MESA
SAN JUAN CO., UTA
SURFACE RIGHTS

CAUSE NO. UIC-033

Newspaper Agency
San Juan Record

Marathon Oil Company
PO Box 2659
Casper, WY 82602

Ut. Dept. of Health
Water Pollution Control
Attn: Jerry Riding
150 W.N. Temple
Salt Lake City, UT

U.S. Envirnmental Protection Agency
1860 Lincoln Street
Attn: Mike Strieby
Denver, CO 80295

Minerals Mangement Service
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104 (BLM)

Mr. Richard Perkins,
PO Box 592
Blanding, UT 84511

Mr. Charles Hardy Redd
Box 247
La Sal, UT 84530

Marlayne Poulsen
February 10, 1984

RULE 1-5 APPLICATION FOR APPROVAL OF CLASS II INJECTION WELLS

(a) Each application for the approval of a newly drilled or newly converted Class II Injection Well shall be filed on Form DOGM-UIC-1. The original and six (6) copies of the application and one complete set of attachments shall be furnished to the Board.

Answer:

Form DOGM-UIC-1 for both #1-25 and #3-23 Tin Cup Mesa is attached as Exhibits A and B, respectively. The following is the application for approval.

(b) The application for the approval of Class II Injection Well(s) shall be accompanied by:

(1) A plat showing the location and total depth of the following wells: The Class II Injection well, each water well(s), each abandoned, producing or drilling well and dry hole, within one-half mile of the Class II Injection well. The plat must identify the surface owner(s) of the land within one-half mile of the Class II Injection Well, and each operator of a producing leasehold within one-half mile of each Class II Injection well. Only wells of available public record are required to be included on the plat.

Answer:

See Exhibit C.

(2) A copy of the notice of completion Form DOGM-UIC-2, and if required by the Board and/or Director:

Answer:

Form DOGM-UIC-2 will be submitted for both the #1-25 and the #3-23 Tin Cup Mesa wells upon completion of injector conversion workovers in both wells.

i for a surface casing intended to protect underground sources of drinking water: resistivity, spontaneous potential and caliper logs prior to installation of the casing; and a cement bond, temperature, or density log after the casing is set and cemented.

Answer:

No logs were run prior to setting surface casing.

ii For intermediate and long strings of casing intended to facilitate injection: resistivity, spontaneous potential, porosity, and gamma ray logs before the casing is installed; fracture finder logs, and a cement bond, temperature or density log after the casing is set and cemented.

Answer:

No intermediate string of casing was run.

The following logs were run prior to running production casing:

Resistivity	)	
Porosity	)	DLL-MSFL-GR
Density	)	CNL-FDC-GR
Gamma Ray	)	

The following logs were run after production casing was set and cemented:

Cement Bond

Copies of these logs are attached for both #1-25 and #3-23 Tin Cup Mesa. See Exhibits D - I.

(3) A schematic diagram of the Class II well showing:

i the total depth or plug-back depth of the well;

ii the depth of the injection or disposal interval;

iii the geological name of the injection or disposal zone;

iv the depths of the tops and bottoms of the casing and cement;

v the size of the casing and tubing, and the depth of the packer;

vi an assessment of the presently existing cement bond between the casing and formation;

vii the location of bottom hole.

Answer:

See Exhibits J and K for schematic diagrams of #1-25 and #3-23 Tin Cup Mesa, respectively.

(4) Information showing that injection into the proposed zone will not initiate fractures through the confining strata which could enable the injection fluid or formation fluid to enter a USDW.

i The Board may approve injection provided a finding is made from data, the application is required to furnish, and affadavits supporting the validity of such information.

Answer:

Supporting data: Injectivity tests have been performed on both Tin Cup Mesa #1-25 and #3-23. Water was injected through existing production perforations. From these tests a fracture

The confining strata below the injection zone are composed of calcereous and dolomitic shales. The shales are impermeable and effectively seal off oil, gas and water from strata below.

(5) Proposed operating data:

i design injection rates and pressures and a procedure for controlling injection rates and pressures such as a relief valve, regulator or other pressure control device.

Answer:

Design Injection Rate: 4,000 BWPD (total for both injectors)

Design Injection Pressures: 3,600 psi

Injection rates will be controlled by pump speed and throttling valves for each pump. Injection pressures will be kept within design specifications by utilizing high pressure shut down devices set at or below 3,500 psi. Relief valves will be set at or below 3,600 psi so that if shut down devices fail, relief valves will not allow pressure buildup above 3,600 psi.

ii geologic name, depth, and location of injection fluid source;

Answer:

The injection fluid comes from the Cutler Formation at a depth of approximately 2,900'. The injection fluid source well is located N26° 1'W 1,881' to the NW corner of Section 25.

iii qualitative and quantitative analysis of representative sample of water to be injected;

Answer:

A qualitative and quantitive analysis of a representative sample of the Cutler injection water is shown on Exhibit N.

iv appropriate geological data on the injection zone and confining zones including the lithologic description, geologic name, thickness, depth and lateral extent;

Answer:

The injection zone is the Upper Ismay zone of the Paradox Formation. The Upper Ismay is composed of porous and permeable limestone and dolomite. At the #1-25 Tin Cup Mesa, the injection zone is 66' thick with the top at 5,416'. At the #3-23 Tin Cup Mesa, the injection zone is 69' thick and the top is at 5,578'. The porous and permeable carbonate rocks vary in thickness from 0' to 120' thick, 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 62' thick at the #1-25 Tin Cup Mesa with the top at 5,352'. At the #3-23 Tin Cup Mesa the anhydrite is 38' thick with the top at 5,540'. The anhydrite thins across the field to five feet and thickens away from the field to 90' or more. Above the massive anhydrite is an impermeable layer of interbedded anhydrite and calcereous and dolomitic shales. The thickness of this layer ranges between 20' and 45' and it is 30' thick at the #1-25 with the top at 5,322' and 24' thick at the #3-23 with the top at 5,516'. A black shale overlies the layer of interbedded anhydrite and shales. The black shale is 15' thick at the #1-25 Tin Cup Mesa and the top is at 5,307'. The black shale is 14' thick at the #3-23 Tin Cup Mesa and the top is at 5,502'.

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 three miles from 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 calcereous and dolomitic shales. The Hovenweep is 29' thick at the #1-25 Tin Cup Mesa and the top is at 5,487'. At the #3-23 Tin Cup Mesa, the Hovenweep is 38' thick and the top is at 5,677'. 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.

v the geologic name, lateral extent, and depth to the top and bottom of all underground sources of drinking water which may be affected by the injection;

Answer:

There are no known sources of drinking water within one-half mile of either the #1-25 or the #3-23 Tin Cup Mesa or within the Tin Cup Mesa Unit (see Exhibit O). The deepest water well in the area surrounding Tin Cup Mesa field is 4,200' above the injection zone (Exhibit O).

vi qualitative analysis of injection formation water on basis for exemption under Rule 1-5 (C).

Answer:

A qualitative analysis of injection formation water is shown on Exhibit N under "Ismay Produced Water Properties."

(6) Contingency plans to cope with all shut-ins or well failures so as to prevent migration of polluting fluids into any underground source of drinking water.

Answer:

The injection system will be equipped with high and low pressure shut down devices which will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also insure proper flow management. Relief valves will also be utilized for high pressure relief.

(7) The results of any formation testing programs.

Answer:

The Ismay formation has been tested for injectivity in both proposed injectors. Results of the water injection tests through existing production perforations are attached. The test results show a fracture pressure at the surface of approximately 3,850 psi for both wells. Maximum injection pressure is 3,600 psi with high level shut downs and relief valves to be set at 3,500 psi and 3,600 psi, respectively. See Exhibits L and M.

(8) A description of the mechanical integrity test, the actual injection procedure and notification to the Division of the date and time of test to provide the Division the opportunity to monitor the test.

Answer:

The casing outside the tubing shall be tested to a pressure of 1,000 psi for 15 minutes as indicated in Rule 1-6 (a) (4). The Division will be notified of the date and time of test, as requested in Rule 1-5 (b) 3.

(9) For new wells, the status of corrective action on defective wells in the area of review.

Answer:

This does not apply to our applications.

(10) Any other additional information which the board shall determine is necessary in order to adequately review the application.

Answer:

Await review of application for further additional required information.

pressure and frac gradient were obtained. See Exhibits L and M. Results are summarized below.

	Tin Cup Mesa #3-23	Tin Cup Mesa #1-25
Frac gradient	1.12 psi/ft	1.14 psi/ft
Fracture pressure (Bottomhole)	6,300 psi	6,200 psi
Fracture pressure (Surface)	3,867 psi	3,848 psi

Maximum surface injection pressure requested is 3,600 psi for both wells, which is more than 200 psi below fracture pressure. High pressure shut down devices and relief valves will be designed to operate at 3,500 psi and 3,600 psi, respectively, to insure that the fracture pressure will not be met.

ii The applicant is required to provide data including the maximum injection rate, maximum surface injection pressure, injection fluid and the lithology and rock properties of the injection zone and confining strata. The applicant's data must demonstrate that the proposed maximum surface injection pressure combined with the pressure of the well's hydrostatic head above the injection zone results in a pressure which could initiate fractures in the confining strata and enable the injection fluid or the formation fluid to enter a USDW.

Answer:

Maximum Injection Rate: 4,000 barrels water per day (Total of both injectors)

Maximum Surface Injection Pressure: 3,600 psi*
* At 3,500 psi, high pressure shut downs will shut down injection operations

Injection Fluid: Cutler Water (See Exhibit N for injection fluid properties)

The injection zone is composed of porous and permeable limestone and dolomite. The carbonate rock has vugular, intergranular, and intercrystalline porosity.

The confining strata above the injection zone are composed of anhydrite and calereous and dolomitic shales. These strata are impermeable and provide an effective seal for oil, gas, and water.

BEFORE THE DIVISION OF OIL,GAS AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

IN THE MATTER OF THE APPLICATION OF MARATHON OIL COMPANY, FOR ADMINISTRATIVE APPROVAL TO INJECT WATER INTO CERTAIN WELLS LOCATED IN SAN JUAN COUNTY, UTAH	)	CAUSE NO. UIC-033

Will be published w/ correction on Feb 22
called San Juan Record 2/14/84 UBS

THE STATE OF UTAH TO ALL PERSONS, OWNERS PRODUCERS, OPERTORS, PURCHASERS AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SAN JUAN COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Marathon Oil Company, P.O. Box 2659, Casper, WY 82602 is requesting that the Division authorize the approval to convert the well mentioned below, to water injection wells as follows:

Township 38 South, Range 25 East

Sec. 25, Well # 1-25 SW/NW

Township 38 South, Range 25 East

Sec. 23, Well # 3-23 SW/SW

INJECTION ZONE: (WELL # 1-25) Ismay 5416' to 5482'-(WELL # 3-23) Ismay 5578' to 5647'

MAXIMUM INJECTION PRESSURE: 3,600 psi

MAXIMUM INJECTION RATE: ~~2,000~~ 3500 to 4000 barrels of water per day

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Marlayne Poulsen
for

MARJORIE L. LARSON
Administrative Assistant

Exhibit "A"

Dennis Stickley 322-2516 Ext-63

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF
Marathon Oil Company
ADDRESS P.O. Box 2659
Casper, WY **ZIP** 82602
INDIVIDUAL ___ **PARTNERSHIP** ___ **CORPORATION** X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE 1-25 Tin Cup Mesa **WELL**
SEC. 25 **TWP.** 38S **RANGE** 25E
San Juan **COUNTY, UTAH**

CAUSE NO. _____

- **ENHANCED RECOVERY INJ. WELL** ☒
- **DISPOSAL WELL** ☐
- **LP GAS STORAGE** ☐
- **EXISTING WELL (RULE I-4)** ☐

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:
1. **That Rule I-5 (g) (iv) authorizes administrative approval of enhanced rcovery injections, disposal or LP Gas storage operations.**
2. **That the applicant submits the following information.**

Lease Name Tin Cup Mesa	**Well No.** 1-25	**Field** Tin Cup Mesa	**County** San Juan
Location of Enhanced Recovery Injection or Disposal Well 1950' FNL 790' FWL	**Sec.** 25	**Twp.** 38S	**Rge.** 25E
New Well To Be Drilled Yes ☐ No ☒	**Old Well To Be Converted** Yes ☒ No ☐	**Casing Test** Yes ☒ No ☐ **Date** 10-11-81	3000#
Depth-Base Lowest Known Fresh Water Within ½ Mile None	**Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile** YES ☒ NO ☐		**State What** Oil & Gas
Location of Injection Source(s) N26°1'W 1881' to NW Corner Section 25	**Geologic Name(s) and Depth of Source(s)** Cutler 2,900' KB		
Geologic Name of Injection Zone Ismay	**Depth of Injection Interval** 5416' to 5482' (KB)		
a. Top of the Perforated Interval: 5416'	**b. Base of Fresh Water:** 0	**c. Intervening Thickness (a minus b)** 5416'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? (YES) NO			
Lithology of Intervening Zones Sandstones, siltstones, shales, limestones & anhydrite			
Injection Rates and Pressures **Maximum** 2,000 B/D; 3,600 PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent.			
Richard Perkins, P.O. Box 592, Blanding, UT 84511			
Charles Hardy Redd, Box 247, LaSal, UT 84530			

State of _____)
County of _____)

_____
Applicant

Before me, the undersigned authority, on this day personally appeared _____ **known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.**

Suscribed and sworn to before me this _____ **day of** _____, **19** _____

SEAL

_____

My commission expires _____ **Notary Public in and for** _____

Exhibit "A"

Mrs Stickley 322-2516 Ext-63

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF
Marathon Oil Company
ADDRESS P.O. Box 2659
Casper, WY **ZIP** 82602
INDIVIDUAL ___ **PARTNERSHIP** ___ **CORPORATION** X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE 1-25 Tin Cup Mesa **WELL**
SEC. 25 **TWP.** 38S **RANGE** 25E
San Juan **COUNTY, UTAH**

CAUSE NO. UIC-033

- **ENHANCED RECOVERY INJ. WELL** ☒
- **DISPOSAL WELL** ☐
- **LP GAS STORAGE** ☐
- **EXISTING WELL (RULE I-4)** ☐

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. **That Rule I-5 (g) (iv) authorizes administrative approval of enhanced rcovery injections, disposal or LP Gas storage operations.**
2. **That the applicant submits the following information.**

Lease Name Tin Cup Mesa	**Well No.** 1-25	**Field** Tin Cup Mesa	**County** San Juan
Location of Enhanced Recovery Injection or Disposal Well 1950' FNL 790' FWL	**Sec.** 25	**Twp.** 38S	**Rge.** 25E
New Well To Be Drilled Yes ☐ No ☒	**Old Well To Be Converted** Yes ☒ No ☐	**Casing Test** Yes ☒ No ☐ **Date** 10-11-81	3000#
Depth-Base Lowest Known Fresh Water Within ½ Mile None	**Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile** YES ☒ NO ☐		**State What** Oil & Gas
Location of Injection Source(s) N26°1'W 1881' to NW Corner Section 25	**Geologic Name(s) and Depth of Source(s)** Cutler 2,900' KB		
Geologic Name of Injection Zone Ismay	**Depth of Injection Interval** 5416' to 5482' (KB)		
a. Top of the Perforated Interval: 5416'	**b. Base of Fresh Water:** 0	**c. Intervening Thickness (a minus b)** 5416'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? (YES) NO			
Lithology of Intervening Zones Sandstones, siltstones, shales, limestones & anhydrite			
Injection Rates and Pressures	**Maximum** ~~2,000~~ 3500-4000 **B/D**	3,600 **PSI**	

The Names and Addresses of Those to Whom Notice of Application Should be Sent.

Richard Perkins, P.O. Box 592, Blanding, UT 84511
Charles Hardy Redd, Box 247, LaSal, UT 84530

State of _____)
County of _____)

_____
Applicant

Before me, the undersigned authority, on this day personally appeared _____ **known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.**

Suscribed and sworn to before me this _____ **day of** _____, **19** _____

SEAL

_____

My commission expires _____ **Notary Public in and for** _____

FORM DOGM-UIC-1 (continued)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.

2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).

3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)

4. Attach Electric or Radioactivity Log of Subject well (if released).

5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.

6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.

7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.

8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.

9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.

10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.

11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.

12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9-5/8"	1,557' KB	640	Surface	Calculated
Intermediate	None				
Production	7"	5,712' KB	995	1,520'	CBL
Tubing (epoxy coated)	2-7/8"	5,365' KB	Name - Type - Depth of Tubing Packer Baker A3 Lok-Set Pkr @ 5,366' (coated)		
Total Depth 5,714'	Geologic Name - Inj. Zone Ismay	Depth - Top of Inj. Interval 5,416' KB		Depth - Base of Inj. Interval 5,482' KB	

Exhibit "A"

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF
Marathon Oil Company

ADDRESS P.O. Box 2659
Casper, WY **ZIP** 82602

INDIVIDUAL ___ **PARTNERSHIP** ___ **CORPORATION** X

FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE 1-25 Tin Cup Mesa **WELL**

SEC. 25 **TWP.** 38S **RANGE** 25E

San Juan **COUNTY, UTAH**

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL	☒
DISPOSAL WELL	☐
LP GAS STORAGE	☐
EXISTING WELL (RULE I-4)	☐

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. **That Rule I-5 (g) (iv) authorizes administrative approval of enhanced rcovery injections, disposal or LP Gas storage operations.**
2. **That the applicant submits the following information.**

Lease Name Tin Cup Mesa	**Well No.** 1-25	**Field** Tin Cup Mesa	**County** San Juan
Location of Enhanced Recovery Injection or Disposal Well 1950' FNL 790' FWL	**Sec.** 25	**Twp.** 38S	**Rge.** 25E
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Depth-Base Lowest Known Fresh Water Within ½ Mile None	**Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile** YES ☒ NO ☐		**State What** Oil & Gas
Location of Injection Source(s) N26°1'W 1881' to NW Corner Section 25	**Geologic Name(s) and Depth of Source(s)** Cutler 2,900' KB		
Geologic Name of Injection Zone Ismay	**Depth of Injection Interval** 5416' **to** 5482' (KB)		
a. Top of the Perforated Interval: 5416'	**b. Base of Fresh Water:** 0	**c. Intervening Thickness (a minus b)** 5416'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? (YES) NO			
Lithology of Intervening Zones Sandstones, siltstones, shales, limestones & anhydrite			
Injection Rates and Pressures **Maximum** 2,000 B/D; 3,600 PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. Richard Perkins, P.O. Box 592, Blanding, UT 84511; Charles Hardy Redd, Box 247, LaSal, UT 84530			

MARATHON OIL COMPANY

By: Dennis C. Stuckey
Applicant's Attorney

State of _____)

County of _____)

Before me, the undersigned authority, on this day personally appeared _____ **known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.**

Suscribed and sworn to before me this _____ **day of** _____, **19** _____

SEAL

My commission expires _____ **Notary Public in and for** _____

(OVER)

FORM DOGM-UIC-1 (continued)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.

2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).

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7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.

8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.

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Tubing (epoxy coated)	2-7/8"	5,365' KB	Name - Type - Depth of Tubing Packer Baker A3 Lok-Set Pkr @ 5,366' (coated)		
Total Depth 5,714'	Geologic Name - Inj. Zone Ismay		Depth - Top of Inj. Interval 5,416' KB		Depth - Base of Inj. Interval 5,482' KB

Tin Cup Mesa #3-23

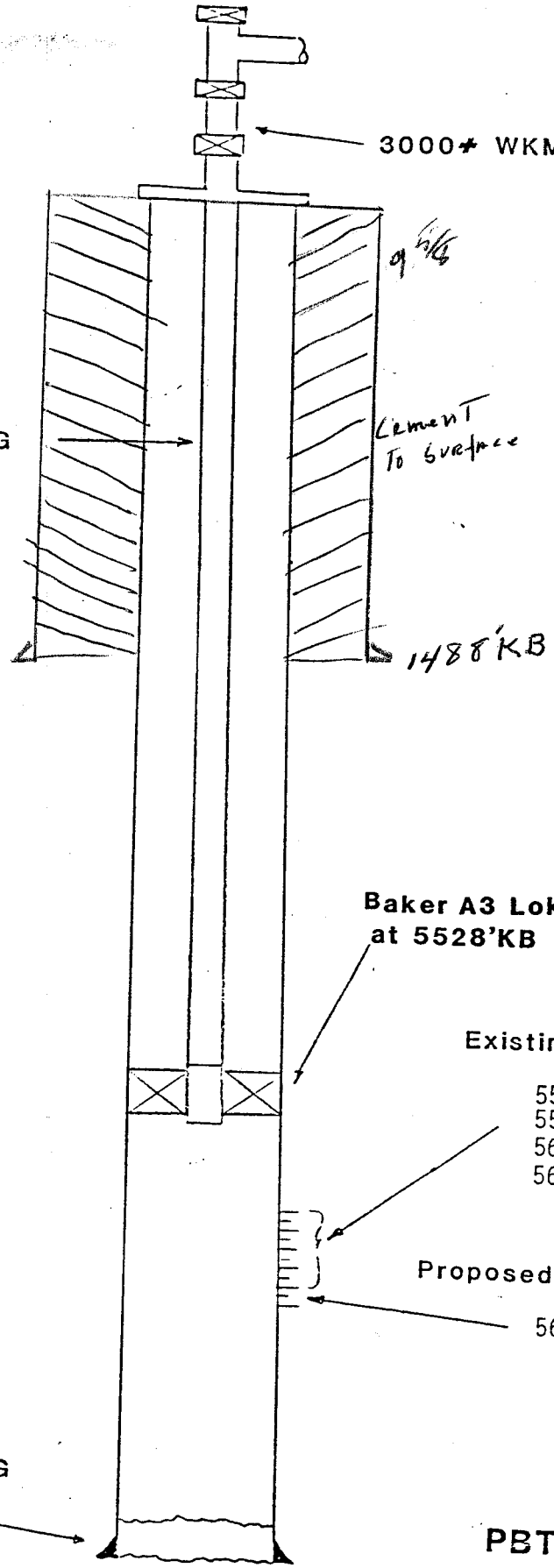
1,055' FSL 4,014' FEL Section 23, T38S, R25E

Exhibit "K"

Injector Conversion

5170' GL

5184' KB



Injection Zone

Ismay
5,578' KB-5,647' KB

Good Bond Across Ismay
Cement Top 2,650'

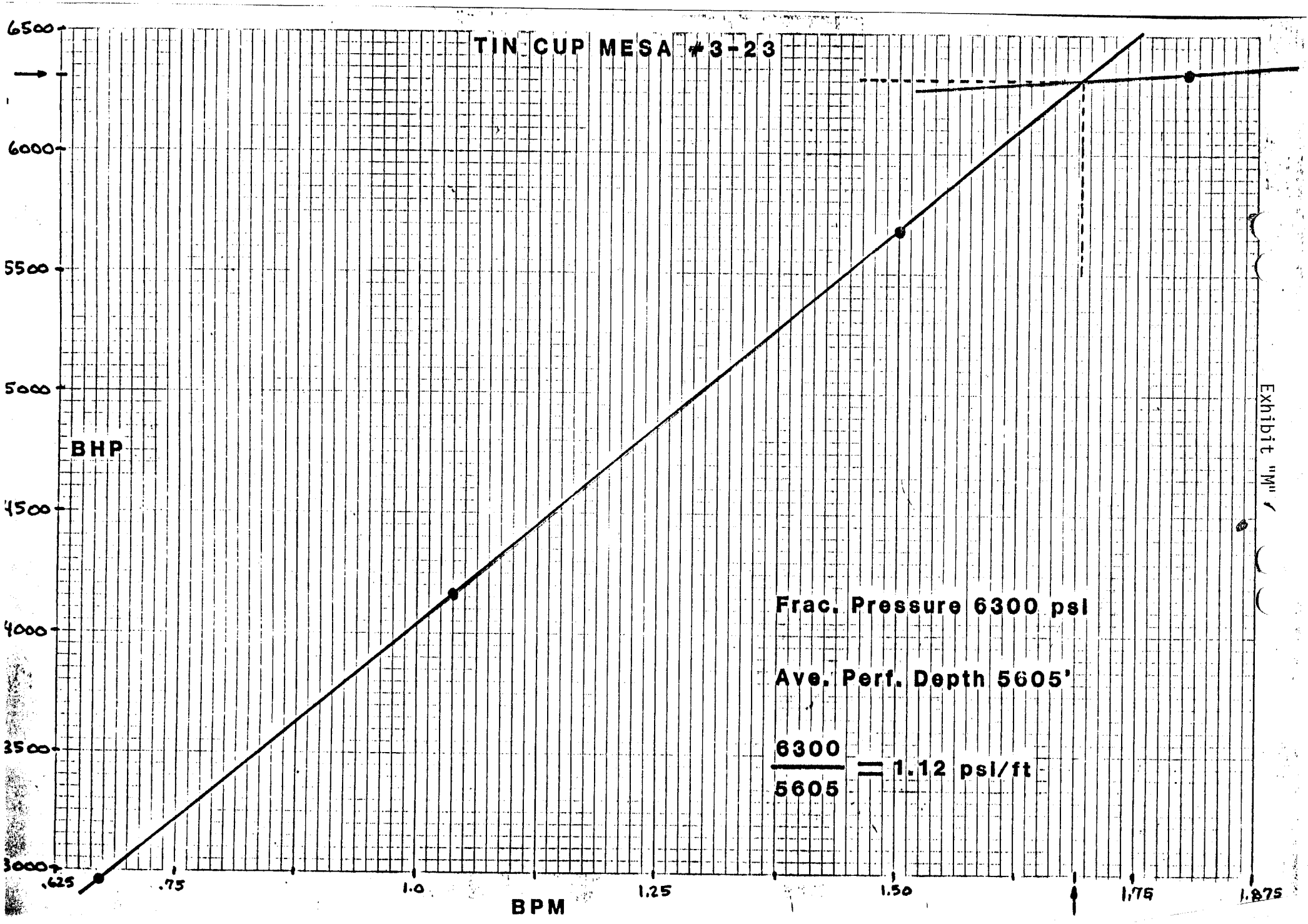
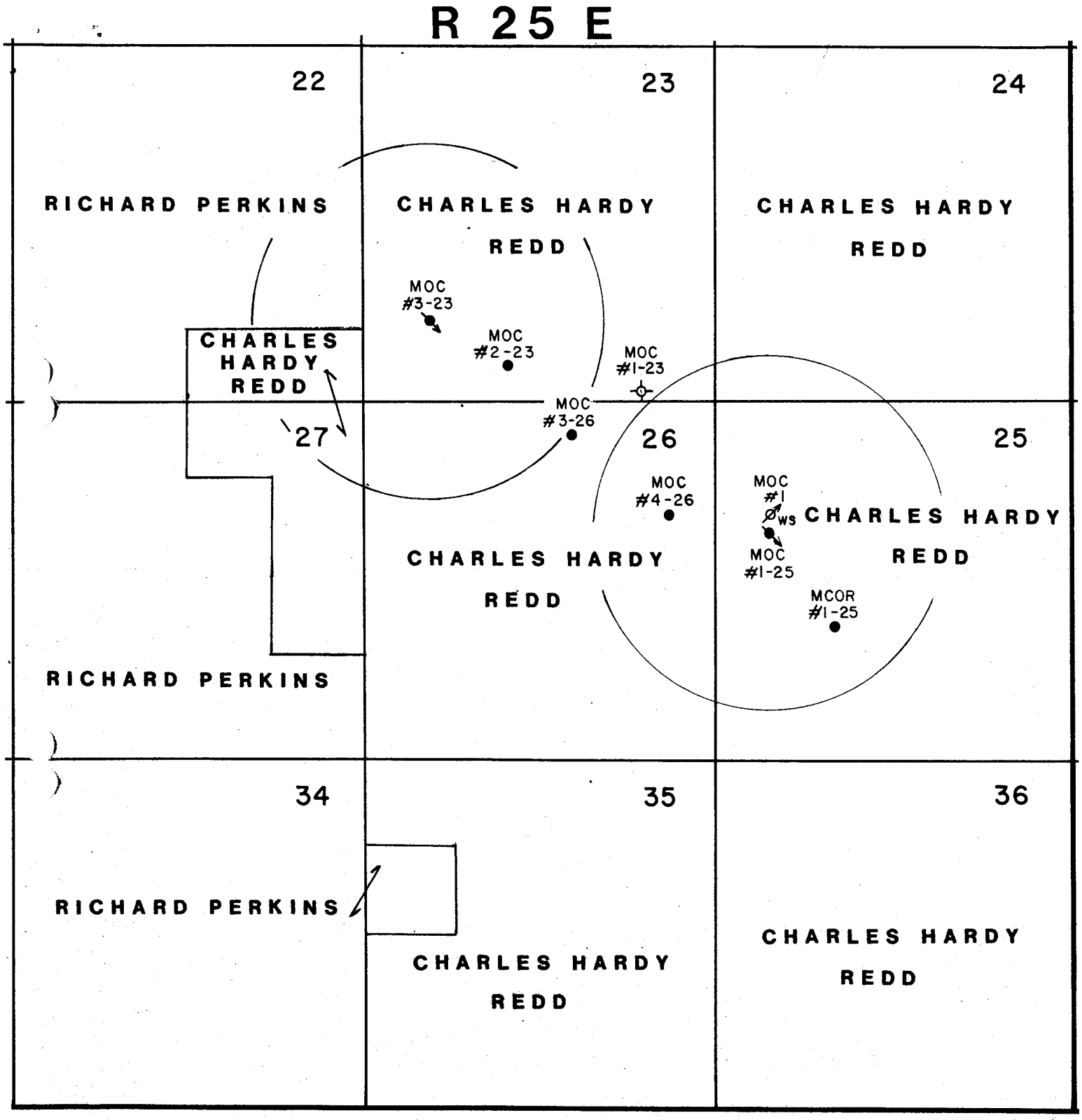

TIN CUP MESA #3-23
6500
6000
5500
5000
4500
4000
3500
3000
BHP
.625
.75
1.0
1.25
1.50
1.75
1.875
BPM
Frac. Pressure 6300 psi
Ave. Perf. Depth 5605'
6300 / 5605 = 1.12 psi/ft

Exhibit "M"



MOC 1-23 T.D. 5810'
MOC 2-23 T.D. 5804'
MOC 3-23 T.D. 5895'
MOC 1-25 T.D. 5714'
MOC 3-26 T.D. 5780'
MOC 4-26 T.D. 5815'
MCOR 1-25 T.V.D. 5631'
MOC 1 WS P.T.D. 3400'

T 38 S

TIN CUP MESA

SAN JUAN CO., UTAH

SURFACE RIGHTS

Tin Cup Mesa Injection Well
Exhibit "C"
Schedule of Mineral and Surface Grazing Ownership
T38S-R25E, San Juan County, Utah

TRACT NO.	DESCRIPTION OF LANDS	MINERAL OWNERSHIP	MINERALS LEASED BY	FEDERAL SERIAL NO. & EXPIRATION DATE	SURFACE GRAZING RIGHTS LEASED BY
1	Sec. 22: W½	USA	Currently NOL	NOL Does not apply	Richard Perkins (All)
	Sec. 27: All	USA	Currently NOL	NOL Does not apply	Richard Perkins - Sec. 27: W½, SW¼NE¼, NW¼SE¼, S½E Charles Hardy Redd - Sec. 27: N½NE¼, SE¼NE¼, NE¼SE¼
	Sec. 34: NE¼	USA	Currently NOL	NOL Does not apply	Richard Perkins (All)
	Sec. 35: NW¼	USA	Currently NOL	NOL Does not apply	Richard Perkins - Sec. 35: SW¼NW¼ Charles Hardy Redd - Sec. 35: N½NW¼, SE¼NW¼
2	Sec. 22: E½	USA	MCOR	U-30712 11-85	Richard Perkins - Sec. 22: NE¼, N½SE¼
	Sec. 25: NW¼NW¼	USA	MCOR	U-30712 11-85	Charles Hardy Redd - Sec. 22: S½SE¼ Sec. 25: NW¼NW¼
3	Sec. 23: W½, W½SE¼	USA	Marathon Oil	U-31928 2-86	Charles Hardy Redd (All)
	Sec. 25: SW¼NW¼	USA	Marathon Oil	U-31928 2-86	Charles Hardy Redd (All)
	Sec. 26: E½	USA	Marathon Oil	U-31928 2-86	Charles Hardy Redd (All)
4	Sec. 23: NE¼	USA	Marathon, Celsius	U-31477 12-85	Charles Hardy Redd

TRACT NO.	DESCRIPTION OF LANDS	MINERAL OWNERSHIP	MINERALS LEASED BY	FEDERAL SERIAL NO. & EXPIRATION DATE	SURFACE GRAZING RIGHTS LEASED BY
5.	Sec. 24: W½NW¼, E½SW¼	USA	Marathon, Celsius, Mobil, MCOR	U-44824 Held by Unit	Charles Hardy Redd
6.	Sec. 24: E½NW¼, W½SW¼	USA	Transco Expl.	U-46735 5-91	Charles Hardy Redd
7.	Sec. 24: NE¼	USA	Antelope Production	U-47971 4-19-84	Charles Hardy Redd
8.	Sec. 24: SE¼	USA	Mobil, MCOR, Celsius	U-17063 4-19-84	Charles Hardy Redd
9.	Sec. 25: NE¼NW¼, SE¼	USA	Marathon, Celsius, Mobil, MCOR	U-45911 Held by unit	Charles Hardy Redd
10.	Sec. 25: NW¼NE¼	USA	Richard Peterson	U-49690 12-91	Charles Hardy Redd
11.	Sec. 25: SE¼NW¼	USA	Marathon, Celsius, Mobil, MCOR	U-44819 Held by unit	Charles Hardy Redd
12.	Sec. 25: NE¼NE¼, S½NE¼	USA	Antelope Production	U-42067 2-89	Charles Hardy Redd
13.	Sec. 26: NW¼	USA	Marathon, Celsius, Mobil	U-44825 Held by unit	Charles Hardy Redd
14.	Sec. 26: SW¼	USA	Beard Oil	U-28245 12-84	Charles Hardy Redd
15.	Sec. 25: SW¼	USA	Marathon, Celsius, Mobil, MCOR	U-13655 Held by unit	Charles Hardy Redd
16.	Sec. 23: E½SE¼	USA	Celsius, Mobil, Marathon	U-13921 Held by unit	Charles Hardy Redd

TRACT NO.	DESCRIPTION OF LANDS	MINERAL OWNERSHIP	MINERALS LEASED BY	FEDERAL SERIAL NO. & EXPIRATION DATE	SURFACE GRAZING RIGHTS LEASED BY
17.	Sec. 34: W½, SE¼	USA	G. F. Rothschild	U-52332 3-93	Richard Perkins
18.	Sec. 35: SW¼	USA	Getty, Chorney, Anderson	U-30133 7-84	Charles Hardy Redd
19.	Sec. 35: E½	USA	Ladd Petroleum	U-37365 7-87	Charles Hardy Redd
20.	Sec. 36: NW¼	St. of Utah	Celsius, MCOR	ML-30593 6-10-84	Charles Hardy Redd
21.	Sec. 36: NE¼	St. of Utah	Ray Chorney	ML-36202 10-16-88	Charles Hardy Redd
22.	Sec. 36: S½	St. of Utah	Raymond T. Duncan	ML-35726 5-8-88	Charles Hardy Redd

EDWARD W. CLYDE
ELLIOTT LEE PRATT
WILLIAM G. GIBBS
RICHARD C. CAHOON
RODNEY G. SNOW
STEVEN E. CLYDE
THEODORE BOYER, JR.
L. MARK FERRE
EDWIN C. BARNES
DOUGLAS G. MORTENSEN
GARY L. PAXTON
NEIL A. KAPLAN
D. BRENT ROSE
JOHN W. ANDERSON
JAMES L. WARLAUMONT
H. MIFFLIN WILLIAMS III
JEFFREY W. APPEL
JENNIFER M. HANSEN

CLYDE, PRATT, GIBBS & CAHOON

ATTORNEYS AT LAW
200 AMERICAN SAVINGS PLAZA
77 WEST SECOND SOUTH
SALT LAKE CITY, UTAH 84101

PHONE 322-2516
AREA CODE 801

TELECOPIER:
(801) 322-2516

OF COUNSEL
FRANK J. ALLEN
ROLAND R. WRIGHT

February 13, 1984

FILE NO.

RECEIVED
FEB 1984
DIVISION OF
OIL, GAS & MINING

Mr. Cleon Feight, Manager
UIC Program
Utah Board of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Well Conversion Applications: 1-25 and 3-23 Tin Cup Mesa

Dear Mr. Feight:

On behalf of Marathon Oil Company I am submitting the enclosed applications to convert Tin Cup Mesa wells 1-25 and 3-23 from production to Class II Injection Wells under Rules I-1 to I-9 of the Board of Oil, Gas and Mining.

Please advise us of any further information which you require in making your determination on the issuance of the Class II permits for these individual injection wells.

Sincerely yours,

CLYDE, PRATT, GIBBS & CAHOON

Dennis C. Stickley

Dennis C. Stickley

DCS/dp

Enclosures

Casper Division
Production United States

Marathon Oil Company

P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/577-1555

February 15, 1984

Mr. Dennis C. Stickley
Clyde, Pratt, Gibbs & Cahoon
200 American Savings Plaza
77 West Second South
Salt Lake City, UT 84101

Dear Mr. Stickley:

Enclosed is a copy of intracompany correspondence from our Land Department and a plat showing surface ownership and lessees.

In the event this information does not suffice, please contact me immediately.

Very truly yours,

Walt West
Regulatory Coordinator

WEW:jmb

enclosures

RECEIVED
FEB 1 7 1984
CLYDE, PRATT,
GIBBS & CAHOON

TRACOMPANY CORRESPONDENCE

TO: Walt West

DATE: February 14, 1984

OFFICE: Aspen Creek Rm. 215

FROM: Carl L. Bassett clb

OFFICE: Aspen Creek Rm. 328

(USE THIS LINE FOR FILE REFERENCE OR SUBJECT)

RE: Surface Ownership of Lands Around
Tin Cup Mesa Water Injection Wells

Upon checking State and Federal records in Salt Lake City, Utah the surface ownerships around Tin Cup are divided between the State of Utah, owning Section 36, and the U.S.A. (BLM) owning the surface of all remaining lands.

Please see attached plat for the breakdown of surface ownership as well as current surface lessees.

If you need further information, please call.

CLB/krj

Attachment

cc: R. C. Nelson

RECEIVED

FEB 14 1984
CASPER DISTRICT
OPERATIONS
GOVERNMENT COMPLIANCE

LIST OF EXHIBITS

Exhibit	
A	Form DOGM-UIC-1 - #1-25 Tin Cup Mesa
B	Form DOGM-UIC-1 - #3-23 Tin Cup Mesa
C	Schedule of Mineral and Surface Grazing Ownership
D	DLL-MSFL-GR - #1-25 Tin Cup Mesa
E	CNL-FDC-GR - #1-25 Tin Cup Mesa
F	CBL-GR - #1-25 Tin Cup Mesa
G	DLL-MSFL-GR - #3-23 Tin Cup Mesa
H	CNL-FDC-GR - #3-23 Tin Cup Mesa
I	CBL-GR - #3-23 Tin Cup Mesa
J	Schematic Diagram of Class II Well - #1-25 Tin Cup Mesa
K	Schematic Diagram of Class II Well - #3-23 Tin Cup Mesa
L	Fracture Pressure - #1-25 Tin Cup Mesa
M	Fracture Pressure - #3-23 Tin Cup Mesa
N	Summary of Water Analyses at Tin Cup Mesa, Utah
O	Artesian Well Information in the Tin Cup Mesa Area

Exhibit "A"

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF
Marathon Oil Company
ADDRESS P.O. Box 2659
Casper, WY **ZIP** 82602
INDIVIDUAL ___ **PARTNERSHIP** ___ **CORPORATION** X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE 1-25 Tin Cup Mesa **WELL**
SEC. 25 **TWP.** 38S **RANGE** 25E
San Juan **COUNTY, UTAH**

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL	☒
DISPOSAL WELL	☐
LP GAS STORAGE	☐
EXISTING WELL (RULE I-4)	☐

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:
1. **That Rule I-5 (g) (iv) authorizes administrative approval of enhanced rcovery injections, disposal or LP Gas storage operations.**
2. **That the applicant submits the following information.**

Lease Name Tin Cup Mesa	**Well No.** 1-25	**Field** Tin Cup Mesa	**County** San Juan
Location of Enhanced Recovery Injection or Disposal Well 1950' FNL 790' FWL	**Sec.** 25	**Twp.** 38S	**Rge.** 25E
New Well To Be Drilled Yes ☐ No ☒	**Old Well To Be Converted** Yes ☒ No ☐	**Casing Test** Yes ☒ No ☐ **Date** 10-11-81	3000#
Depth-Base Lowest Known Fresh Water Within ½ Mile None	**Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile** YES ☒ NO ☐		**State What** Oil & Gas
Location of Injection Source(s) N26°1'W 1881' to NW Corner Section 25	**Geologic Name(s) and Depth of Source(s)** Cutler 2,900' KB		
Geologic Name of Injection Zone Ismay	**Depth of Injection Interval** 5416' to 5482' (KB)		
a. Top of the Perforated Interval: 5416'	**b. Base of Fresh Water:** 0	**c. Intervening Thickness (a minus b)** 5416'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? (YES) NO			
Lithology of Intervening Zones Sandstones, siltstones, shales, limestones & anhydrite			
Injection Rates and Pressures **Maximum** 2,000 B/D; 3,600 PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. Richard Perkins, P.O. Box 592, Blanding, UT 84511; Charles Hardy Redd, Box 247, LaSal, UT 84530			

MARATHON OIL COMPANY
By: Dennis C. Stuckey
Applicant's Attorney

State of _____)
County of _____)

Before me, the undersigned authority, on this day personally appeared _____ **known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.**

Suscribed and sworn to before me this _____ **day of** _____, **19** _____

SEAL

My commission expires _____ **Notary Public in and for** _____

(OVER)

FORM DOGM-UIC-1 (continued)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.

2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).

3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)

4. Attach Electric or Radioactivity Log of Subject well (if released).

5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.

6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.

7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.

8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and voiume. If no written objection is received within 15 days from date of publication the application may be approved administratively.

9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.

10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.

11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.

12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9-5/8"	1,557' KB	640	Surface	Calculated
Intermediate	None				
Production	7"	5,712' KB	995	1,520'	CBL
Tubing (epoxy coated)	2-7/8"	5,365' KB	Name - Type - Depth of Tubing Packer: Baker A3 Lok-Set Pkr @ 5,366' (coated)		
Total Depth 5,714'	Geologic Name - Inj. Zone Ismay		Depth - Top of Inj. Interval 5,416' KB		Depth - Base of Inj. Interval 5,482' KB

Casper
Production United States

Marathon Oil Company

P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/577-1555

February 15, 1984

Mr. Dennis C. Stickley
Clyde, Pratt, Gibbs & Cahoon
200 American Savings Plaza
77 West Second South
Salt Lake City, UT 84101

Dear Mr. Stickley:

Enclosed is a copy of intracompany correspondence from our Land Department and a plat showing surface ownership and lessees.

In the event this information does not suffice, please contact me immediately.

Very truly yours,

Walt West
Regulatory Coordinator

WEW:jmb

enclosures

R 25 E

T 38 S

22

SURFACE OWNER : USA
LESSEE : R. PERKINS
(GRAZING RIGHTS ONLY)

23

SURFACE OWNER : USA
LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

24

SURFACE OWNER : USA
LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

MOC #3-23

MOC #2-23

MOC #1-23

MOC #3-26

SURFACE OWNER : USA
LESSEE : C.H. REDD
(GRO)

27

26

MOC #4-26

SURFACE OWNER : USA
LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

25

MOC #1 WS

MOC #1-25

MCOR #1-25

SURFACE OWNER : USA
LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

SURFACE OWNER : USA
LESSEE : R.PERKINS
(GRAZING RIGHTS ONLY)

34

SURFACE OWNER : USA
LESSEE : R. PERKINS
(GRAZING RIGHTS ONLY)

35

SURFACE OWNER : USA

LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

36

SURFACE OWNER : STATE OF UTAH
LESSEE : C.H. REDD
(GRAZING RIGHTS ONLY)

MOC 1-23 T.D. 5810'
MOC 2-23 T.D. 5804'
MOC 3-23 T.D. 5895'
MOC 1-25 T.D. 5714'
MOC 3-26 T.D. 5780'
MOC 4-26 T.D. 5815'
MCOR 1-25 T.V.D. 5631
MOC 1 WS P.T.D. 340

TIN CUP MESA

SAN JUAN CO., UTA

SURFACE RIGHTS

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE	NOTES
2S	5W	24	NENE	SHELL OIL CO	POTTER 1-24B5	ALTAMONT			HSTC	

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	1245	997	1509	1420	2216	1193	39	8580	334671	1	
GAS MCF	8017	4312	3732	4354	5373	8765	292	34553	629587	0	
WTR BBL	6035	5975	8418	7624	10163	6216	207	44431	615162	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	25	NENE	SHELL OIL CO	MURDOCK 1-25B5	ALTAMONT			HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	782	594	535	506	471	503	16	3391	200040	1	
GAS MCF	1886	0	2200	7556	7752	4889	162	24283	658145	0	
WTR BBL	1538	894	899	22	165	645	21	4163	125071	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	26	NWNE	SHELL OIL CO	MURDOCK 1-26B5	ALTAMONT			HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	2360	2059	2499	2447	2366	2337	77	14068	370022	1	
GAS MCF	5695	364	8221	7081	7538	7149	238	36048	592826	0	
WTR BBL	9265	8835	9996	9489	9644	9525	317	56754	572481	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	27	SENE	SHELL OIL CO	BIRCH 1-27B5	ALTAMONT			HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	659	593	752	974	1037	951	31	4966	524399	1	
GAS MCF	2383	3160	2353	2339	2233	4020	134	16488	845427	0	
WTR BBL	6277	4228	6548	8669	6532	3599	119	35853	672787	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	28	NWNE	SHELL OIL CO	UTE 1-28B5	ALTAMONT			HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	255	225	243	197	128	151	5	1199	263329	1	
GAS MCF	910	397	77	74	0	71	2	1529	698422	0	
WTR BBL	4556	4666	4819	3665	8405	10634	354	36745	384643	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	29	SWNE	SHELL OIL CO	ROBB 1-29B5	ALTAMONT			COMB

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	492	516	646	657	625	516	17	3452	728126	1	
GAS MCF	3641	1758	994	811	453	364	12	8021	1194957	0	
WTR BBL	1943	630	31	0	0	2	0	2606	352136	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	30	NESE	SHELL OIL CO	UTE SMITH 1-30B5	ALTAMONT			01-82HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	17393	12251	1384	9133	6288	5508	183	51957	51957	1	
GAS MCF	19233	14659	12650	9998	6419	14236	474	77195	77195	0	
WTR BBL	464	457	586	698	890	1334	44	4429	4429	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	31	NWSE	SHELL OIL CO	SMITH 1-31B5	ALTAMONT			01-82HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	5087	6164	4298	2812	2324	6441	214	27126	27126	1	
GAS MCF	0	3903	0	1475	1099	7553	251	14030	14030	0	
WTR BBL	211	962	472	347	356	552	18	2900	2900	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	32	SWNE	SHELL OIL CO	BROADHEAD 1-32B5	ALTAMONT			HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	142	277	60	137	111	151	5	878	162086	1	
GAS MCF	0	27	156	101	41	127	4	452	382743	0	
WTR BBL	45	169	62	129	62	0	0	467	151661	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	34	SWNE	SHELL OIL CO	MURDOCK 1-34B5	ALTAMONT			HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	2835	2492	2777	2639	2789	2736	91	16268	332453	1	
GAS MCF	2525	2449	2861	2478	3855	2330	77	16498	631061	0	
WTR BBL	139	106	77	78	143	180	6	723	387784	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	35	NENE	HUSKY OIL COMPANY	RHOADES-MOON 1-35	ALTAMONT			HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	314	306	407	404	344	325	10	2100	205527	1	
GAS MCF	0	395	2499	1825	1433	1900	63	8052	453767	0	
WTR BBL	221	212	1	1	0	49	1	484	76285	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	5W	36	NENE	HUSKY OIL COMPANY	RHOADES 1-36B5	ALTAMONT			HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	449	384	502	347	356	419	13	2457	79008	1	
GAS MCF	1755	1177	880	850	731	983	32	6376	225960	0	
WTR BBL	1	1	1	1	0	0	0	4	15040	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	6W	3	NENE	SHELL OIL CO	UTE 1-03B6	ALTAMONT			10-79HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	0	0	0	0	0	0	0	0	2565	0	TEMP
GAS MCF	0	0	0	0	0	0	0	0	0	0	ABND
WTR BBL	0	0	0	0	0	0	0	0	1268	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	6W	12	NWNE	SHELL OIL CO	UTE 1-12B6	ALTAMONT			05-79HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	376	331	326	292	270	208	6	1803	19753	1	
GAS MCF	22	20	21	19	18	18	0	118	4246	0	
WTR BBL	101	83	54	40	29	33	1	340	7825	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	6W	13	NWNE	SHELL OIL CO	UTE 1-13B6	ALTAMONT			05-79HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	173	28	308	318	267	219	7	1313	67816	1	
GAS MCF	0	0	0	0	25	0	0	25	39377	0	
WTR BBL	1178	166	1956	3138	2485	3099	103	12022	114348	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	6W	15	NENE	DIAMOND SHAMROCK CORP	UTE TR 1-12B6	ALTAMONT			HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	0	0	0	0	0	0	0	0	30960	0	SHUT
GAS MCF	0	0	0	0	0	0	0	0	12917	0	IN
WTR BBL	0	0	0	0	0	0	0	0	21043	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	6W	21	NWNE	SHELL OIL CO	BROADHEAD 1-21B6	ALTAMONT			HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	1899	1997	2154	1908	1445	1835	61	11238	258453	1	
GAS MCF	0	0	0	0	0	0	0	0	97728	0	
WTR BBL	5697	5510	5325	5346	5744	3846	128	31468	300136	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	6W	24	SWNE	UTEX OIL COMPANY	BRDHD 1-24B6 FEE	ALTAMONT			03-81HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	1869	1697	1775	1686	1843	1752	58	10622	36144	1	
GAS MCF	3130	1884	1484	1412	2490	2365	78	12765	30309	0	
WTR BBL	5089	4608	4783	4472	3877	3922	130	26751	100193	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	6W	25	SWNE	SHELL OIL CO	UTE 1-25B6	ALTAMONT			11-78HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	1544	1514	1386	1531	1540	1317	43	8832	79146	1	
GAS MCF	9085	11720	0	12901	11659	11215	373	56580	478346	0	
WTR BBL	1827	1842	1089	785	935	663	22	7141	33845	0	

TWP	RGE	SEC	SPOT	OPERATOR	LEASE NAME	FIELD	INT	PROD	ZONE
2S	6W	32	NWSE	MAINOCO OIL & GAS CO	NEIGHBORHOOD1-32-B6	CEDAR RIM			04-82HSTC

	JAN	FEB	MAR	APR	MAY	JUN	DAILY	YR TO DTE	CUMULATIVE	WLS	CONN
OIL BBL	0	0	0	2758	3017	4911	163	10686	10686	1	
GAS MCF	0	0	0	3504	3874	15004	500	22382	22382	0	
WTR BBL	0	0	0	1718	84	742	24	2544	2544	0	

Tin Cup Mesa #3-23

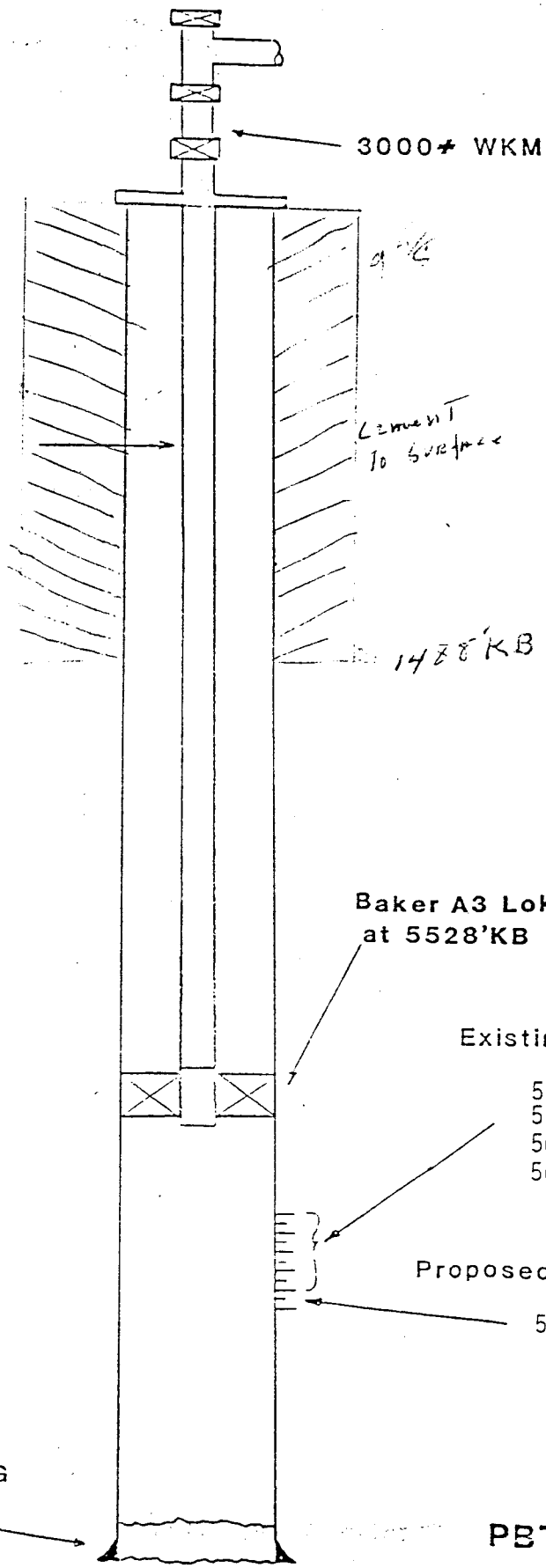
1,055' FSL 4,014' FEL Section 23, T38S, R25E

Injector Conversion

Exhibit "K"

5170' GL

5184' KB



Injection Zone

Ismay
5,578' KB-5,647' KB

Good Bond Across Ismay
Cement Top 2,650'

Exhibit "N"

SUMMARY OF WATER ANALYSES*
AT TIN CUP MESA, UTAH

	Cutler Injection Water Properties	Ismay Produced Water Properties
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_2S (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.

EDWARD W. CLYDE
ELLIOTT LEE PRATT
WILLIAM G. GIBBS
RICHARD C. CAHOON
RODNEY G. SNOW
STEVEN E. CLYDE
THEODORE BOYER, JR.
L. MARK FERRE
EDWIN C. BARNES
GARY L. PAXTON
NEIL A. KAPLAN
D. BRENT ROSE
JOHN W. ANDERSON
DENNIS C. STICKLEY
JAMES L. WARLAUMONT
H. MIFFLIN WILLIAMS III
JEFFREY W. APPEL
JENNIFER M. HANSEN

CLYDE, PRATT, GIBBS & CAHOON

ATTORNEYS AT LAW
200 AMERICAN SAVINGS PLAZA
77 WEST SECOND SOUTH
SALT LAKE CITY, UTAH 84101

PHONE 322-2516
AREA CODE 801

TELECOPIER:
(801) 322-2516

OF COUNSEL
FRANK J. ALLEN
ROLAND R. WRIGHT
DOUGLAS G. MORTENSEN

FILE NO.

February 29, 1984

Mr. Cleon Feight, Director
UIC Program
Utah Board of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84101

RE: UIC Application Tin Cup Mesa

Dear Jack:

I am forwarding a copy of correspondence from Mr. Walt West, Regulatory Coordinator for Marathon Oil Company, relative to notice being given to the grazing permittees in the area of the Tin Cup Mesa injection wells. At your request, we have mailed notice of the applications to the grazing permittees, although surface ownership of the surrounding property is held by the Federal Government.

It is my understanding that publication began on Thursday, February 23, 1984 and unless you receive any objections, the permit can be processed and issued administratively through your division.

Very truly yours,

CLYDE, PRATT, GIBBS & CAHOON

Dennis

Dennis C. Stickley

DCS/dp

Enclosure

cc: Walt West

RECEIVED
MAR 1 1984
DIVISION OF
OIL, GAS & MINING

Casper Division
Production United States

Marathon Oil Company

P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/577-1555

RECEIVED
FEB 2 1 1984
DIVISION OF OIL, GAS & MINING

February 16, 1984

Mr. Dennis C. Stickley
Clyde, Pratt, Gibbs & Cahoon
200 American Savings Plaza
77 West Second South
Salt Lake City, UT 84101

Dear Mr. Stickley:

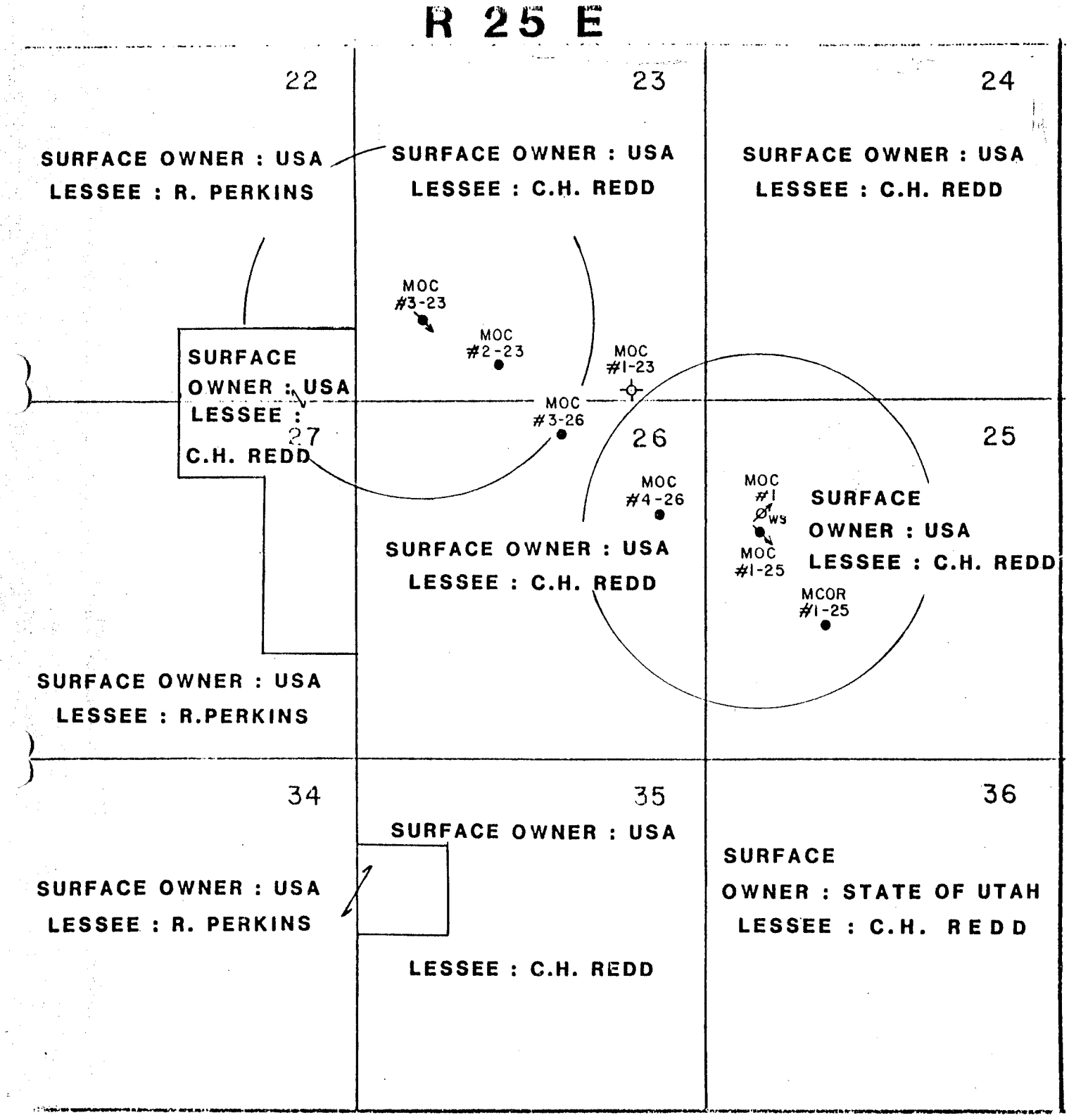
As per your request by telephone this date, the affidavit was changed to read 3,500 to 4,000 barrels per day injection rate. Copies were mailed to the Lessees, whose names are shown on Form DOGM-UIC-1 (Rev. 82), our Exhibits "A" and "B."

The mailings were sent Certified Mail, Return Receipt Requested.

Very truly yours,

Walt West
Regulatory Coordinator

WEW:jmb



MOC 1-23 T.D. 5810'
MOC 2-23 T.D. 5804'
MOC 3-23 T.D. 5895'
MOC 1-25 T.D. 5714'
MOC 3-26 T.D. 5780'
MOC 4-26 T.D. 5815'
MCOR 1-25 T.V.D. 5631'
MOC 1 WS P.T.D. 3400'

TIN CUP MESA

SAN JUAN CO., UTAH

SURFACE RIGHTS

TRACOMPANY CORRESPONDENCE

TO Walt West

OFFICE Aspen Creek Rm. 215

(USE THIS LINE FOR FILE REFERENCE OR SUBJECT)

DATE February 14, 1984

FROM Carl L. Bassett clb

OFFICE Aspen Creek Rm. 328

RE: Surface Ownership of Lands Around
Tin Cup Mesa Water Injection Wells

Upon checking State and Federal records in Salt Lake City, Utah the surface ownerships around Tin Cup are divided between the State of Utah, owning Section 36, and the U.S.A. (BLM) owning the surface of all remaining lands.

Please see attached plat for the breakdown of surface ownership as well as current surface lessees.

If you need further information, please call.

CLB/krj

Attachment

cc: R. C. Nelson

RECEIVED

FEB 14 1984

CASPER DISTRICT
OPERATIONS
GOVERNMENT COMPLIANCE

EDWARD W. CLYDE
ELLIOTT LEE PRATT
WILLIAM G. GIBBS
RICHARD C. CAHOON
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(801) 322-2516

OF COUNSEL
FRANK J. ALLEN
ROLAND R. WRIGHT
DOUGLAS G. MORTENSEN

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CLYDE, PRATT, GIBBS & CAHOON

Dennis

Dennis C. Stickley

DCS/dp

Enclosure

cc: Walt West

RECEIVED
MAR 1 1984
DIVISION OF
OIL, GAS & MINING

Casper Division
Production United States

Marathon Oil Company

P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/577-1555

RECEIVED
FEB 28 1984
CLYDE, PRATT,
GIBBS & CAHOON

February 16, 1984

Mr. Dennis C. Stickley
Clyde, Pratt, Gibbs & Cahoon
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77 West Second South
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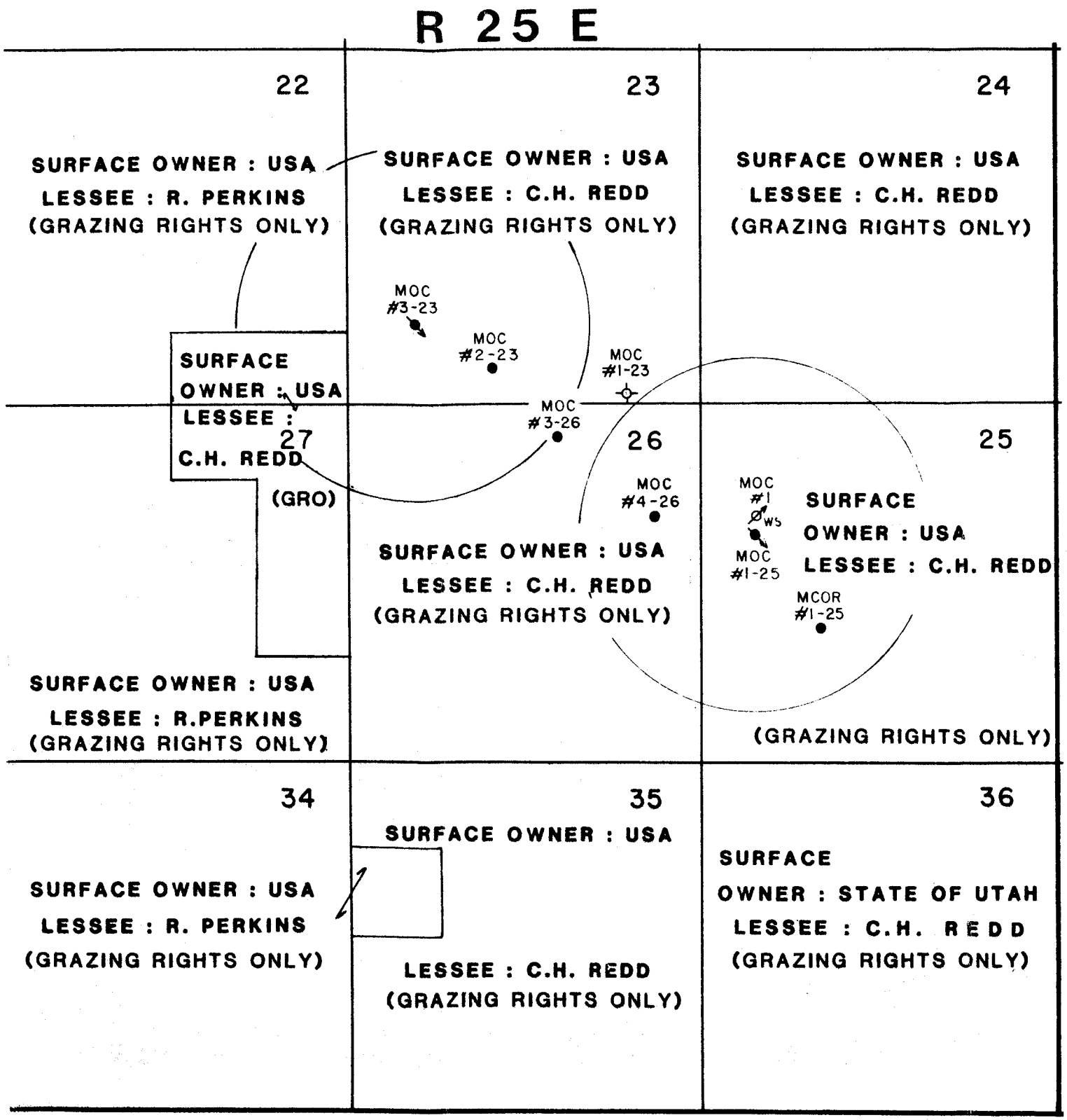
Walt West
Regulatory Coordinator

WEW:jmb

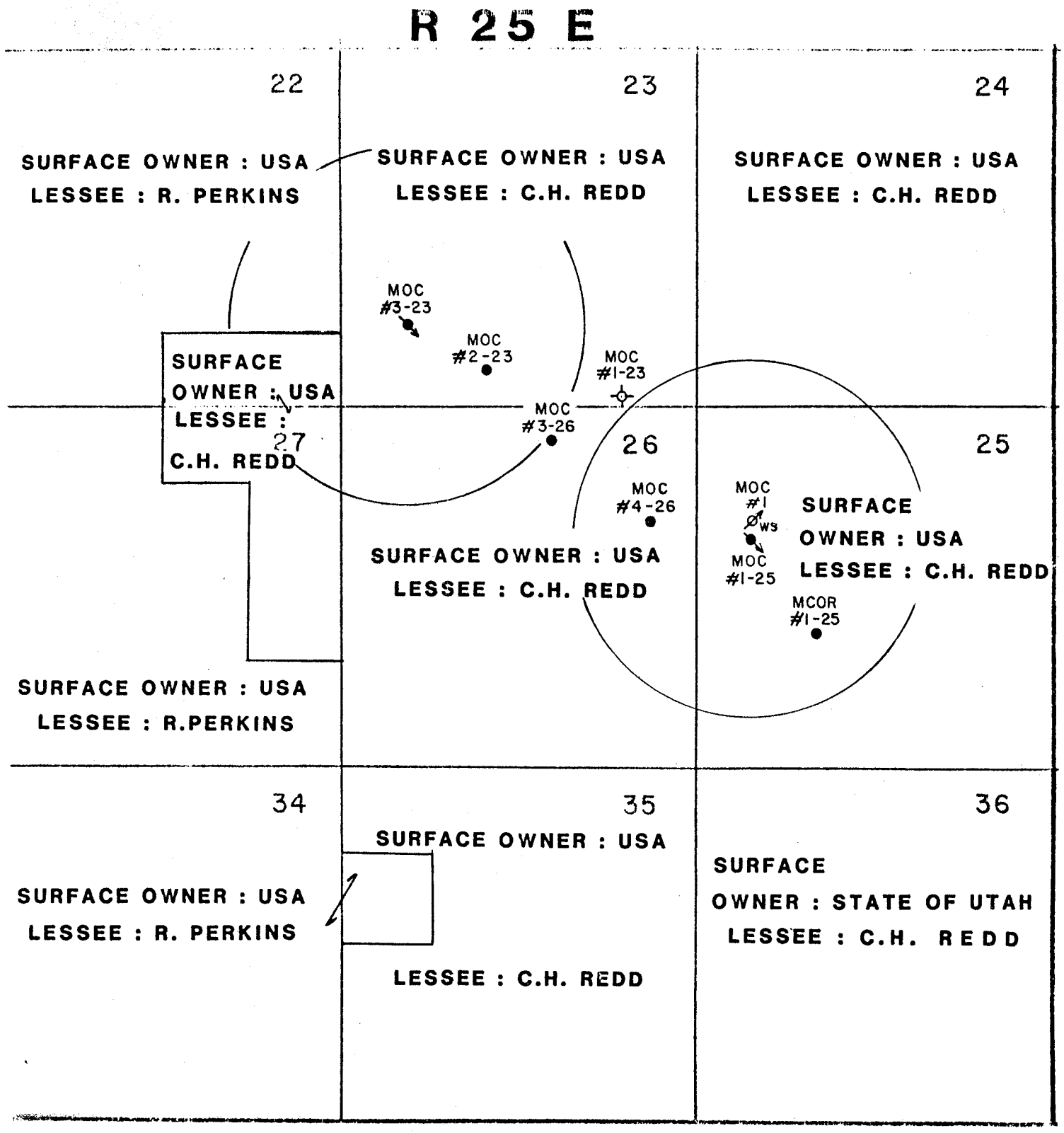


MOC 1-23 T.D. 5810'
MOC 2-23 T.D. 5804'
MOC 3-23 T.D. 5895'
MOC 1-25 T.D. 5714'
MOC 3-26 T.D. 5780'
MOC 4-26 T.D. 5815'
MCOR 1-25 T.V.D. 5631
MOC 1 WS P.T.D. 3400

TIN CUP MESA

SAN JUAN CO., UTAH

SURFACE RIGHTS



MOC 1-23 T.D. 5816'
MOC 2-23 T.D. 5804'
MOC 3-23 T.D. 5895'
MOC 1-25 T.D. 5714'
MOC 3-26 T.D. 5780'
MOC 4-26 T.D. 5815'
MCOR 1-25 T.V.D. 5631'
MOC 1 WS P.T.D. 3400'

T 38 S

TIN CUP MESA

SAN JUAN CO., UTAH

SURFACE RIGHTS

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

March 19, 1984

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

RE: Injection Well Approval
Cause No. UIC-033
Wells #1-25 & #3-23
Sec. 25 and 23, T38S, R25E
San Juan County, Utah.

Gentlemen:

Administrative approval is hereby granted to convert the above referenced wells to enhanced recovery water injection wells. This approval is conditional upon full compliance with the UIC rules and regulations adopted by the Board of Oil, Gas and Mining, and construction and operation of the well as outlined in the application submitted.

If you have any questions concerning this matter, please do not hesitate to call or write.

Best Regards,

Dianne R. Nielson
Director

DN/GH/mfp
76270

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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Best Regards,

Dianne R. Nielson
Director

DN/GH/mfp
76270

RECEIVED
MAR 26 1984
CASPER DISTRICT
OPERATIONS
GOVERNMENT COMPLIANCE

an equal opportunity employer • please recycle paper

Form UIC 10
August, 1982

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, Utah 84114

WELL INTEGRITY REPORT

Date 24 May 1984

Water Disposal Well ✓ Enhanced Recovery Well ✓ Other _____

DOGM/UIC Cause Number _____

Company Marathon Oil Co.

Address _____

City and State _____ Zip Code _____

Lease Name or Number _____ Well Name or Number Tin Cup 1-25

API Well Number _____ Location SW 1/4 of NW 1/4 of ____

Section 25 Township 38S Range 25E County San Juan

Present at Completion: _____ Yes _____ No

Casing Tested in My Presence: X Yes ____ No Pressure 1000 PSI 20 Minutes

Packer Tested in My Presence: X Yes ____ No Pressure 1000 PSI 20 Minutes

Surface-Prod. Csg. Annulus _____ PSI Prod. Csg.-Tubing Annulus 1000 PSI

Disposed/Injected Water Sample Taken:
____ Yes ✓ No (Attach water analysis when obtained)

This well seems to be completed in accordance with DOGM Rule I:
Yes ____ No ____. If NO, write report.

Remarks:

I hereby certify that this report is true and complete to the best of my knowledge.

Name of Operator _____

_____
(Signature) (Title)

Patrick L. Boyle
DOGM Field Inspector

RECEIVED
JUN 17 1985
DIVISION OF OIL, GAS & MINING

Form OGC-3

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

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

5

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR: Marathon Oil Company

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

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: SW NW 1950' FNL & 790' FWL
At top prod. interval reported below
At total depth

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.: 1-25
10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 25, T38S, R25E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-037-30690	6-29-81	San Juan	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
7-18-81	8-15-81	Convert to Inj. 5-13-85	4985' GL, 4999' KB	----

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5714'	5540'	----	0 →	5714'	----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Previous Producing Interval - Ismay 5416'-5426'
Injection Interval thie Completion-5454'-5473' & 5434'-5438' Ismay

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: No logs run for this injection conversion

27. WAS WELL CORED: 5 Cores

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	1557'	12-1/4"	640 sx	None
7"	23# & 26#	5712'	8-3/4"	995 sx	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5346'	5346'

31. PERFORATION RECORD (*Interval, size and number*)
Previous: 5416'-5426' 4 JSPF
This completion: 5454'-5473; 5434'-5438' 4 JSPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5416'-5426'	First-Acidized with 1500 gals.
5434'-5473'	15% HCL
	Second-Acidized with 1200 gals.
	15% HCL

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
Injection 3-11-85	Injection	Injecting

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5-9-85	24	----	→	----	----	667	----

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
Inj. 3300 PSIG	2650 PSIG	→	----	----	667	----

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

TEST WITNESSED BY: Jim VanGilder

35. LIST OF ATTACHMENTS

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

SIGNED Doyle L. [illegible] TITLE District Production Manager DATE June 10, 1985

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

AFFIDAVIT OF PUBLICATION

PUBLIC NOTICE

BEFORE THE DIVISION OF OIL, GAS AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

IN THE MATTER OF THE APPLICATION OF MARATHON OIL

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 UIC-033, Marathon Oil

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 1 issues, the first publication having been made on February 22, 1984 and the last publication having been made on _____

Signature Joyce A Martin
Publisher

Subscribed and sworn to before me this 22nd day of February, A.D. 1984.

Ingrid K Adams
Notary Public
Residing at Monticello, Utah

My commission expires December 2, 1987

This legal republished on 2 22 [illegible]

AFFIDAVIT OF PUBLICATION

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Room 4241 State Office Building
Salt Lake City, Utah 84114

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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 1 issues, the first publication having been made on February 15, 1984 and the last publication having been made on _____

Signature Joyce A. Martin
Publisher

Subscribed and sworn to before me this 22nd day of February, A.D. 1984.

Ingrid K Adam
Notary Public
Residing at Monticello, Utah

My commission expires December 2, 1987

Casper Division
Production United States

Marathon Oil Company

P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/577-1555

RECEIVED

MAR 1 4 1985

DIVISION OF OIL
GAS & MINING

March 11, 1985

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

RE: Tin Cup Mesa No. 1-25
Tin Cup Mesa Field
San Juan County, Utah

Dear Sir:

Enclosed for your information are two copies of the Core Analysis Report for the above captioned well.

Very truly yours,

Kitty G. Thomson

Kitty G. Thomson

Enclosures

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

RECEIVED
MAR 14 1985
DIVISION OF OIL
GAS & MINING

CORE ANALYSIS REPORT

FOR

MARATHON OIL COMPANY

TIN CUP MESA NO. 1-25
TIN CUP MESA
SAN JUAN COUNTY, UTAH

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

MARATHON OIL COMPANY
TIN CUP MESA NO. 1-25
TIN CUP MESA
SAN JUAN COUNTY, UTAH

DATE : 24-OCT-84
FORMATION : ISMAY
DRLG. FLUID: WATER BASE MUD
LOCATION : SW NW SEC 25, T38S, R25E

FILE NO : 3804-6908
ANALYSTS : S.S.
ELEVATION: 5003 KB

PERMEABILITY & POROSITY MEASUREMENTS

SAMPLE NUMBER	DEPTH	PERM Ka MAXIMUM	POR. He	GRAIN DEN	DESCRIPTION	
1	5411.0-12.0	0.04	6.2	2.86	DOL, GY XLN	
2	5412.0-13.0	266.	7.2	2.82	DOL, GY XLN	HF
3	5413.0-14.0	0.05	6.5	2.87	DOL, GY XLN	
4	5414.0-15.0	0.06	8.1	2.84	DOL, GY XLN	
5	5415.0-16.0	0.07	9.0	2.84	DOL, GY XLN	
6	5416.0-17.0	0.04	3.6	2.82	DOL, GY XLN	
7	5417.0-18.0	7.30	14.9	2.84	DOL, GY XLN	
8	5418.0-19.0	3.00	22.0	2.83	DOL, BN SUC	
9	5419.0-20.0	7.70	26.4	2.84	DOL, BN SUC	
10	5420.0-21.0	1.80	24.8	2.82	DOL, BN SUC	
11	5421.0-22.0	3.90	17.2	2.84	DOL, BN SUC	
12	5422.0-23.0	0.01	0.6	2.73	LS, GY XLN	
13	5423.0-24.0	0.15	2.2	2.77	LS, GY XLN	
14	5424.0-25.0	0.04	2.9	2.79	LS, GY XLN	
15	5425.0-26.0	0.05	2.3	2.75	LS, GY XLN	
16	5426.0-27.0	1.40	1.7	2.82	DOL, GY XLN	
17	5427.0-28.0	0.02	1.2	2.77	LS, GY XLN	
18	5428.0-29.0	0.05	1.7	2.78	LS, GY XLN	
19	5429.0-30.0	0.38	5.8	2.78	LS, GY XLN	
20	5430.0-31.0	0.13	3.9	2.79	LS, GY XLN	
21	5431.0-32.0	3.00	16.2	2.83	DOL, GY XLN	
22	5432.0-33.0	0.06	12.2	2.83	DOL, GY XLN	
23	5433.0-34.0	0.02	2.9	2.79	LS, GY XLN	
24	5434.0-35.0	1.27	16.2	2.85	DOL, GY XLN	
25	5435.0-36.0	0.02	3.5	2.76	LS, GY XLN	
26	5436.0-37.0	0.02	3.9	2.81	DOL, GY XLN	
27	5437.0-38.0	0.05	4.1	2.77	LS, GY XLN	
28	5438.0-39.0	0.04	3.8	2.78	LS, GY XLN	

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

MARATHON OIL COMPANY
TIN CUP MESA NO. 1-25

DATE : 24-OCT-84
FORMATION : ISMAY

FILE NO : 3804-6908
ANALYSTS : S.S.

PERMEABILITY & POROSITY MEASUREMENTS

SAMPLE NUMBER	DEPTH	PERM Ka MAXIMUM	POR. He	GRAIN DEN	DESCRIPTION
29	5439.0-40.0	0.09	2.9	2.77	LS, GY XLN
30	5440.0-41.0	0.07	2.6	2.76	LS, GY XLN
31	5441.0-42.0	0.26	3.5	2.79	LS, GY XLN
32	5442.0-43.0	0.51	7.5	2.81	DOL, GY XLN
33	5443.0-44.0	0.05	3.1	2.74	LS, GY XLN
34	5444.0-45.0	0.03	4.6	2.77	LS, GY XLN
35	5445.0-46.0	0.23	9.0	2.75	LS, GY XLN
36	5446.0-47.0	0.21	3.9	2.77	LS, GY XLN
37	5447.0-48.0	0.27	4.5	2.81	DOL, GY XLN
38	5448.0-49.0	22.	9.1	2.76	LS, GY XLN
39	5449.0-50.0	0.02	2.9	2.73	LS, GY XLN
40	5450.0-51.0	0.15	8.6	2.72	LS, GY XLN
41	5451.0-52.0	3.70	8.9	2.75	LS, GY XLN
	5452.0-72.0				ANALYSIS COMPLETED
42	5473.0-74.0	1.90	15.5	2.83	DOL, GY XLN
43	5474.0-75.0	3.00	25.0	2.79	LS, GY XLN
44	5475.0-76.0	2.10	19.4	2.78	LS, GY XLN
45	5476.0-77.0	0.01	3.9	2.76	LS, GY XLN
46	5477.0-78.0	0.93	16.0	2.79	LS, GY XLN
47	5478.0-79.0	0.86	13.6	2.80	DOL, GY XLN
48	5479.0-80.0	1.06	14.9	2.81	DOL, GY XLN
49	5480.0-81.0	0.02	3.0	2.80	DOL, GY XLN
50	5481.0-82.0	0.01	5.0	2.79	LS, GY XLN

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

PERMEABILITY VS POROSITY

COMPANY: MARATHON OIL COMPANY
FIELD : TIN CUP MESA

WELL : TIN CUP MESA NO. 1-25
COUNTY, STATE: SAN JUAN COUNTY, UTAH

AIR PERMEABILITY : MD - HORIZONTAL (UNCORRECTED FOR SLIPPAGE)
POROSITY : PERCENT (HELIUM)

DEPTH INTERVAL	RANGE & SYMBOL	PERMEABILITY MINIMUM	PERMEABILITY MAXIMUM	POROSITY MIN.	POROSITY MAX.	POROSITY AVERAGE	PERMEABILITY AVERAGES ARITHMETIC	HARMONIC	GEOMETRIC
5411.0 - 5482.0	1 (+)	0.001	267.0	0.5	26.5	8.4	6.7	0.05	0.23

EQUATION OF REDUCED LINE RELATING PERMEABILITY(K) TO POROSITY :

LOG(K) = (SLOPE)(POROSITY) + LOG OF INTERCEPT

K = ANTILOG((SLOPE)(POROSITY) + LOG OF INTERCEPT)

RANGE	EQUATION OF THE LINE
1	PERM = ANTILOG((0.1440)(POROSITY) + -1.8490)

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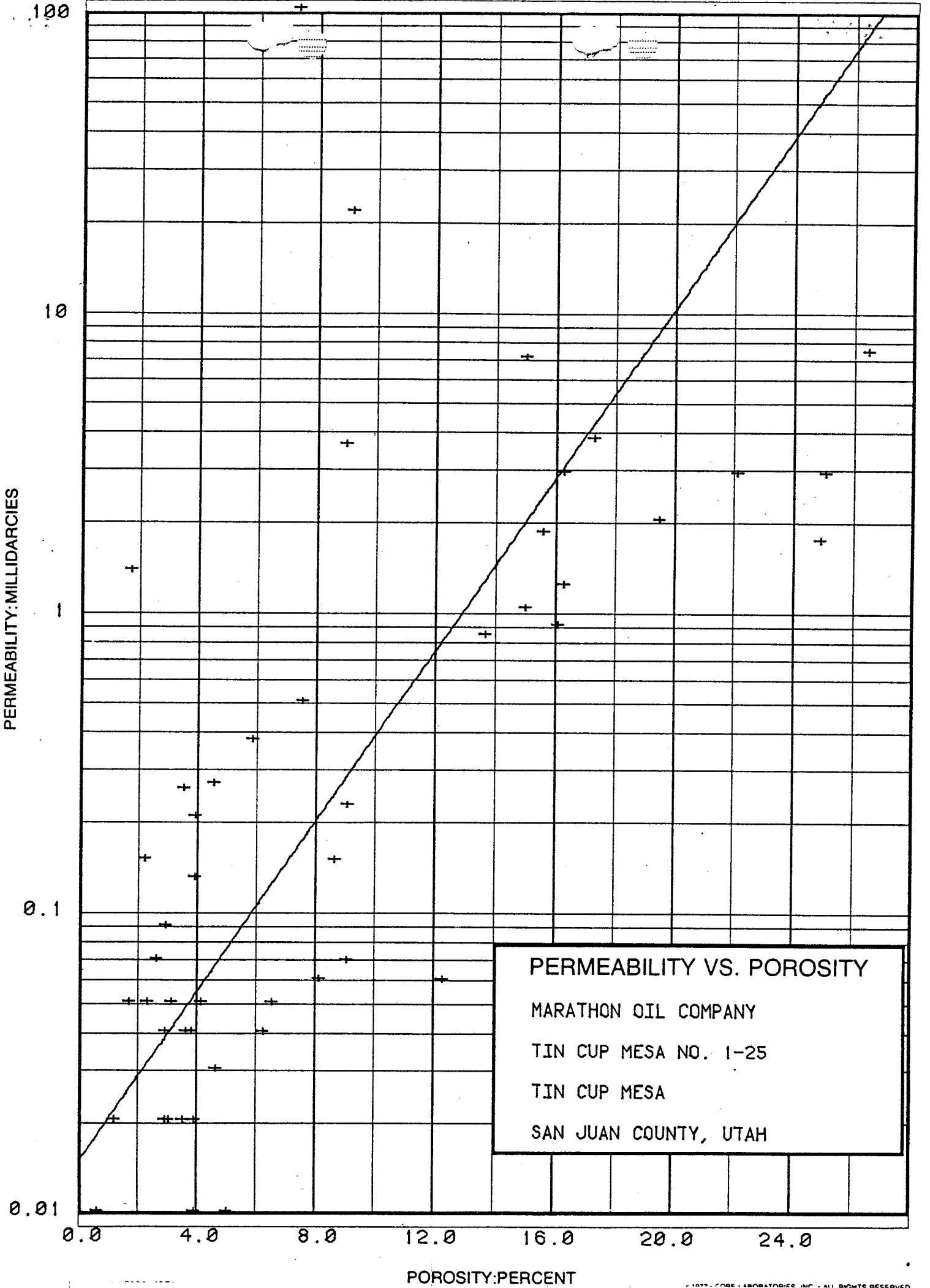

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CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY MARATHON OIL COMPANY — FILE NO. 3804-6908
WELL TIN CUP MESA NO. 1-25 — DATE 24-OCT-84
FIELD TIN CUP MESA — FORMATION ISMAY — ELEV. 5003 KB
COUNTY SAN JUAN — STATE UTAH — DRLG. FLD. WATER BASE MUD — CORES
LOCATION SW NW SEC 25, T38S, R25E

CORRELATION COREGRAPH

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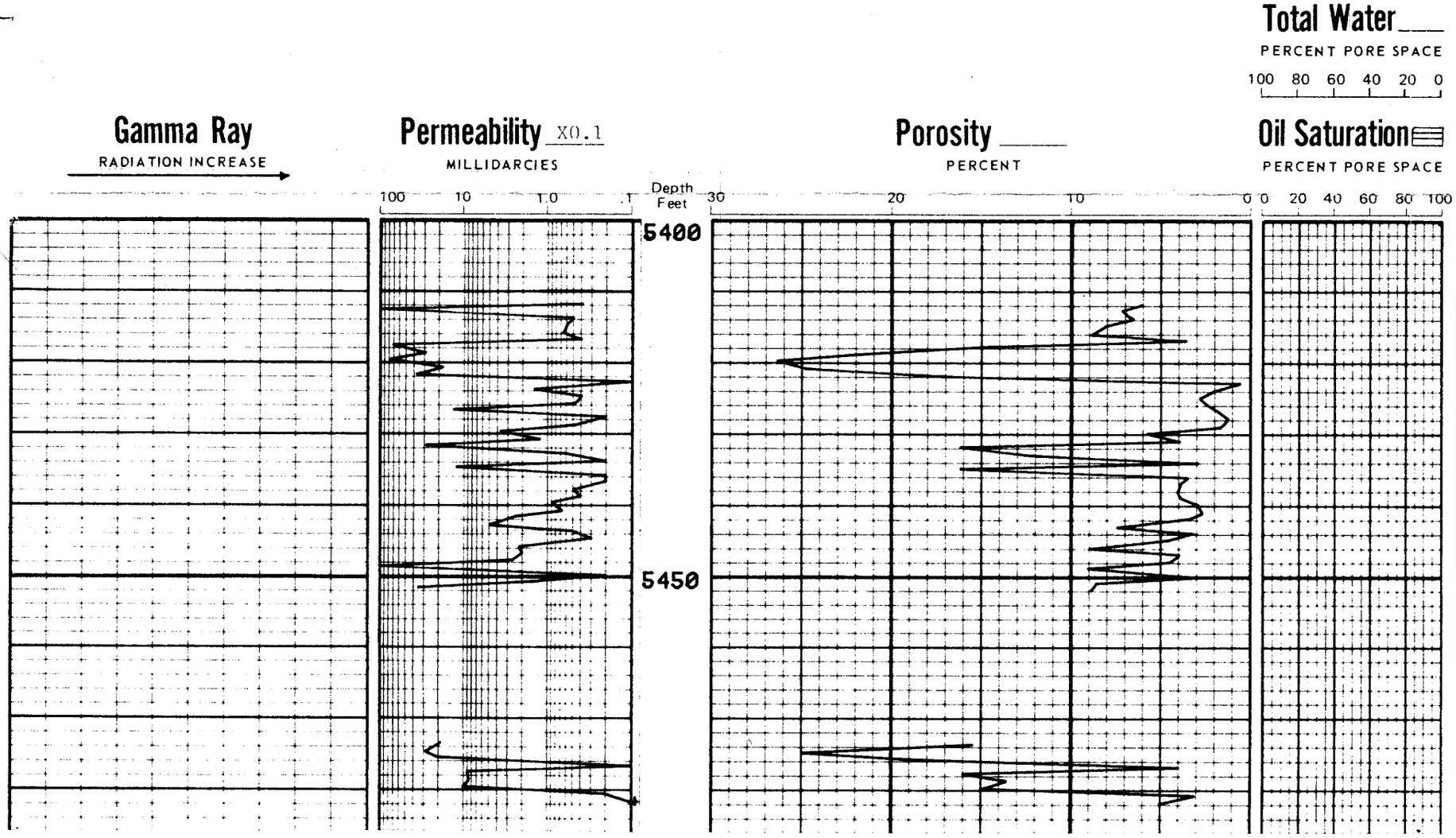
VERTICAL SCALE: 5" = 100'



CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

RECEIVED
MAR 14 1985
DIVISION OF OIL
GAS & MINING

CORE ANALYSIS REPORT

FOR

MARATHON OIL COMPANY

VARIOUS WELLS
TIN CUP MESA FIELD
SAN JUAN COUNTY, UTAH

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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	

383 25E 25
WIW

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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	

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

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	5647.0-48.0	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	

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

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.
1-25

10. FIELD AND POOL, OR WILDCAT
Tin Cup Mesa

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

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

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.)

RECEIVED
OCT 23 1989
DIVISION OF
OIL, GAS & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Injector

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 2690, Cody, Wyoming 82414

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1950' FNL & 790' FWL

14. PERMIT NO.
43-037-30690

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4999' 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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	X	(Other)			
(Other) 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.)*

READ AND UNDERSTAND ATTACHED BLM STIPULATIONS PRIOR TO CONSTRUCTION.

OIL AND GAS
DRN RJF
JRB GLH
DTS SLS
2-TAS
3- MICROFILM
4 FILE

Marathon Oil Company requests approval to isolate some existing perforations by following the attached procedure so that injected fluids will be isolated to the Upper portion of perforations within the Upper Ismay Formation.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10-30-89
BY: [illegible]

BLM-Orig & 3--cc: ~~WOGCC~~ SG-2, WRF, FMK, TKS, Title & Contract (Houston), WTR(5)

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

SIGNED R P Mealey TITLE Regulatory Coordinator DATE October 4, 1989

(This space for Federal or State office use)

APPROVED BY Kenneth V Rhea TITLE Acting District Mgr DATE 10/13/89

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

*See Instructions on Reverse Side

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

Procedure for Conformance Work
Tin Cup Mesa #1-25
Tin Cup Mesa Field
San Juan County, Utah

(1) HOT OIL W/ WATER TUBING – NOTE DEPTH OF PARAFFIN & AMT.
(2) UIC TESTING (SUNDRIES FILED & CONTACT BLM FOR INSPECTION).
WES & FRANK!

Well Data:

Elevation: 4985' GL; 4999' KB

Depth: TD @ 5895' KB; PBTD @ 5430' KB

Casing Record:
Surface: 9-5/8", 36#, K-55 set at 1557'
Production: 7", 23 & 26#, K-55 set at 5712'

Tubing Record: 2-7/8", 6.5#, N-80 with Internal Coating

Packer: Baker 47B Inverted Lok-Set with Internal Coating, and 6 element system. Bottom of packer set at 5348'.

Perforation: Upper Ismay: 5416-26'
5434-38'
5454-73'

Proposed Retainer Setting Depth: 5447' KB

Procedure Summary

The purpose of this procedure is to place a wireline-set cement retainer across the oil-water contact in order to divert the water currently entering perforations below this level into oil-saturated intervals. The estimated cost for this procedure is . ., there is no AFE for this work.

Procedure:

1. Bleed pressure off injection head. MIRU rig. NU BOPE.
2. Release the Baker Inverted Lok-set packer and POOH with the internally coated tubing. Round trip a 7" csg. scraper to PBTD. Check tbg for paraffin buildup & clean as necessary. TKS
3. RU wireline company and packoff. RIH with a 7" wireline-set cement retainer and set at 5447' KB using collars for depth control on CBL run on 8-19-81. POOH and RD wireline company.
4. Tally back into the hole with redressed packer to 5348' KB.
5. Pump 170 bbls. fresh city water containing bactericide and corrosion inhibitor down the backside and set the packer. Notify the Utah Board of Oil, Gas, and Mining of our intentions to conduct a UIC test. Pressure test the tubing-casing annulus to 1000 psi with a Utah Board of Oil, Gas and Mining representative on location.
6. ND BOPE. RD and move off rig. Place well back on injection.
   Note: Use stabbing guides when handling the coated tubing.

TMB/sp

Approval: SWHemmings 9-20-89
RDWinland 9-25-89
TKSlemmons 9/30/89

Marathon Oil Company
Tin Cup Mesa 1-25
Sec. 25, T. 38 S., R. 25 E.
San Juan County, Utah
Lease U-31928

CONDITIONS OF APPROVAL

Notify Mike Wade of the BLM, San Juan Resource Area, at least 24 hours prior to commencing operations.

FORM DOGM-UIC-2
(Rule I-5 (b) 2
(Revised 1982)

PLEASE TYPE OR USE BLACK INK ONLY

(To be filed within 30 days after drilling is completed)

U-31928
COUNTY LEASE NO.

DEPARTMENT OF NATURAL RESOURCES AND ENERGY
DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

API NO. 43-037-30690

640 Acres
N
W E
S
Locate Well Correctly and Outline Lease

COUNTY San Juan SEC. 25 TWP. 38S RGE. 25E
COMPANY OPERATING Marathon Oil Company
OFFICE ADDRESS P.O. Box 2659
TOWN Casper STATE ZIP WY 82602
FARM NAME Tin Cup Mesa WELL NO. 1-25
DRILLING STARTED 7-18 19 81 DRILLING FINISHED 8-15 19 81
DATE OF FIRST PRODUCTION 8-28-81 COMPLETED 1-26-83
WELL LOCATED NE ¼ SW ¼ NW ¼
690 FT. FROM SL OF ¼ SEC. & 790 FT. FROM WL OF ¼ SEC.
ELEVATION DERRICK FLOOR 4999' GROUND 4985'

RECEIVED
JUN 17 1985
DIVISION OF OIL GAS & MINING

TYPE COMPLETION
Single Zone Ismay
Multiple Zone
Comingled
LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Ismay	5416'	5482'			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
9-5/8"	36	K-55	1557'	1500	640		Surface
7"	23&26	K-55	5712'	3000	995		1520' CBL

TOTAL DEPTH 5714' KB

PACKERS SET DEPTH After Injection Conversion Packer set at 5346' KB

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

	1	2	3
FORMATION	Ismay		
SPACING & SPACING ORDER NO.	Unit Well		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery		
PERFORATED	5416'-5426'		
INTERVALS			
ACIDIZED?	Please See		
	Attachment		
FRACTURE TREATED?			

INITIAL TEST DATA

Date	1-26-83		
Oil, bbl./day	30		
Oil Gravity	45°		
Gas, Cu. Ft./day	53,000 CF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	1767		
Water-Bbl./day	37		
Pumping or Flowing	Pumping		
CHOKE SIZE	None		
~~FLOW~~ Pumping TUBING PRESSURE	50 PSIG		

A record of the formations drilled through, and pertinent remarks are presented on the reverse. (use reverse side)

Please Refer to Attachment

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone (307) 577-1555 Daylet Jones District Production Mgr.
Name and title of representative of company

Subscribed and sworn before me this 12 day of June, 19 85

ATTACHMENT

FORMATION TOPS

Shinarump	2,276'
Moenkopi	2,339'
Cutler	2,384'
Honaker Trail	4,229'
Paradox	5,164'
U. Ismay	5,322'
Hovenweep	5,485'
L. Ismay	5,515'
Gothic Shale	5,565'
Desert Creek	5,573'
Chimney Rock	5,673'
Akah	5,695'

PRODUCTION TREATMENT

The Ismay Perforations 5416'-5426' were acidized with 1500 gallons of 15% HCL acid.

TREATMENT DURING INJECTION CONVERSION

The Ismay Formation was perforated at 5454'-5473' and 5434'-5438' with 4 JSPF.

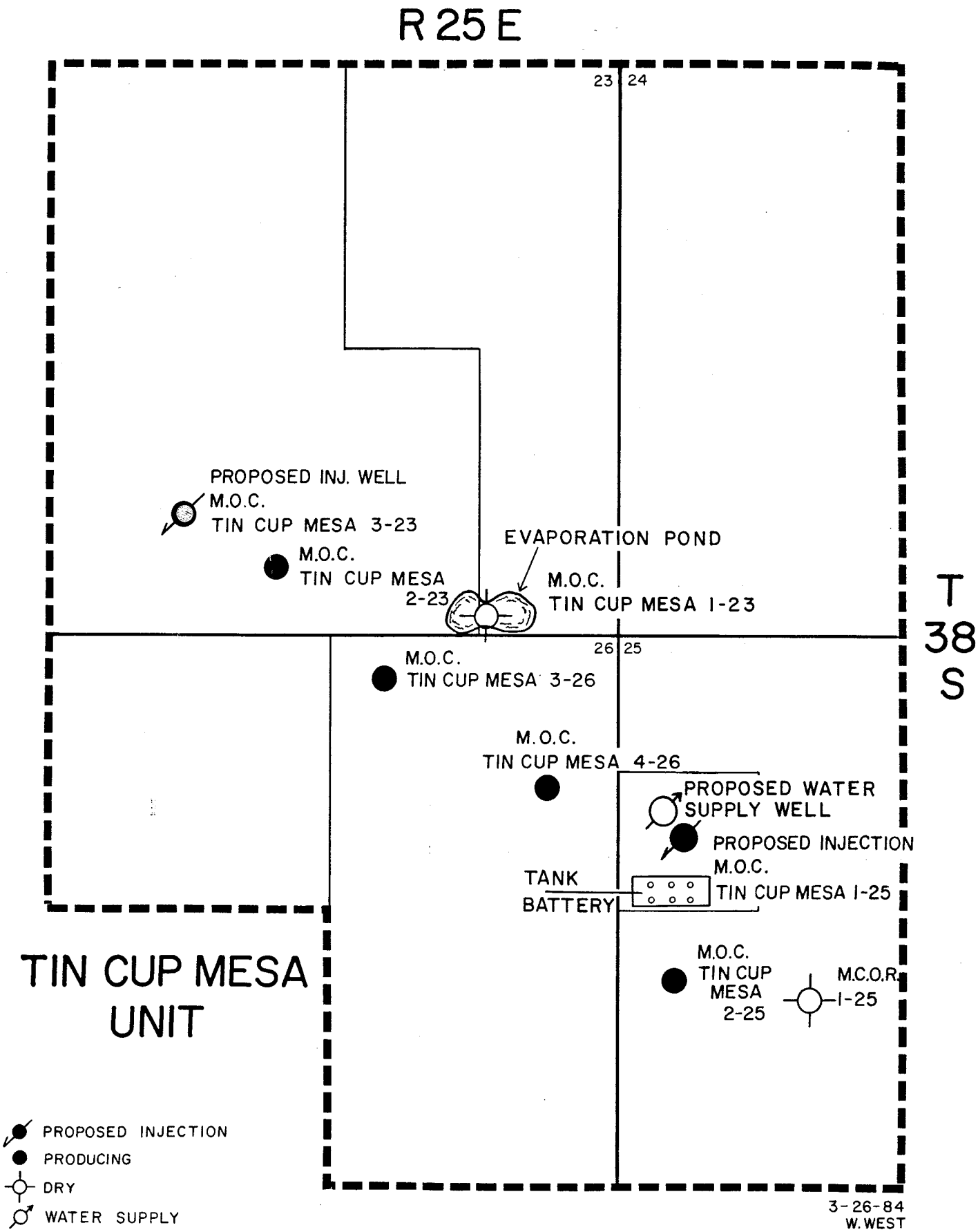
All perforations 5416'-5473' were then acidized with a total of 2700 gallons of 15% HCL acid.

2-7/8" tubing was landed in the packer set at 5346' KB.

RECEIVED

JUN 17 1985

DIVISION OF OIL
GAS & MINING


R 25 E
23
24
PROPOSED INJ. WELL
M.O.C.
TIN CUP MESA 3-23
M.O.C.
TIN CUP MESA
2-23
EVAPORATION POND
M.O.C.
TIN CUP MESA 1-23
T
38
S
26
25
M.O.C.
TIN CUP MESA 3-26
M.O.C.
TIN CUP MESA 4-26
PROPOSED WATER
SUPPLY WELL
PROPOSED INJECTION
M.O.C.
TIN CUP MESA 1-25
TANK
BATTERY
M.O.C.
TIN CUP
MESA
2-25
M.C.O.R.
1-25
TIN CUP MESA
UNIT
PROPOSED INJECTION
PRODUCING
DRY
WATER SUPPLY
3-26-84
W. WEST

9/29/83

ARTESIAN WELL INFORMATION

IN TIN CUP MESA AREA

Owner	Location	Depth
Joseph Garzon & Arthur Kasper	Sec. 27, T38S, R25E	750 ft.
Tom Jackson	Sec. 27, T38S, R25E	750 ft.
BLM	Sec. 28, T38S, R25E	1200 ft.
Gladys Owen	Sec. 28, T38S, R25E	750 ft.
Richard Perkins	Sec. 30, T38S, R25E	650 ft.
Eugene Possein (Lapsed)	Sec. 33, T38S, R25E	650 ft.
BLM (Lapsed)	Sec. 28, T38S, R26E	930 ft.

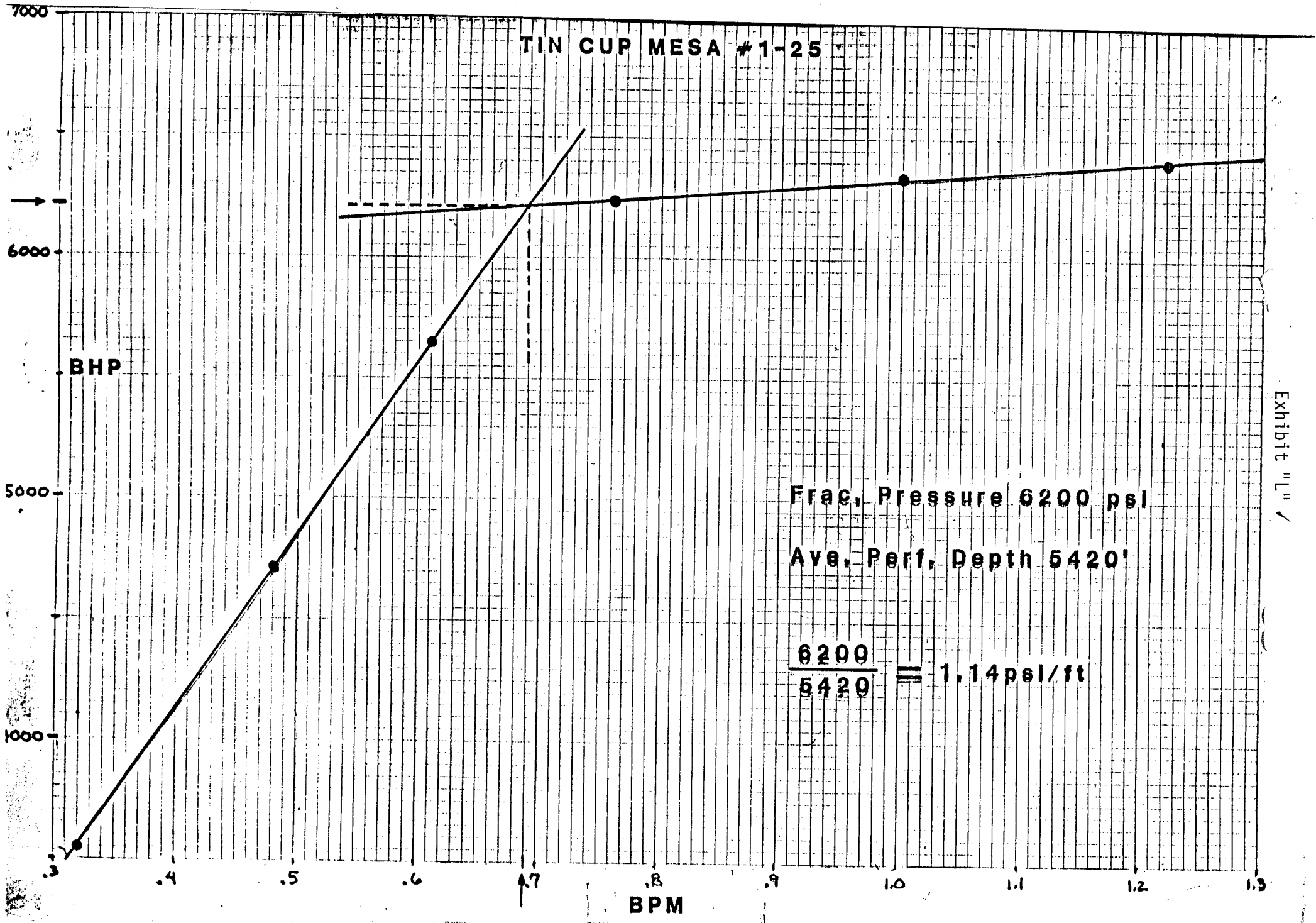
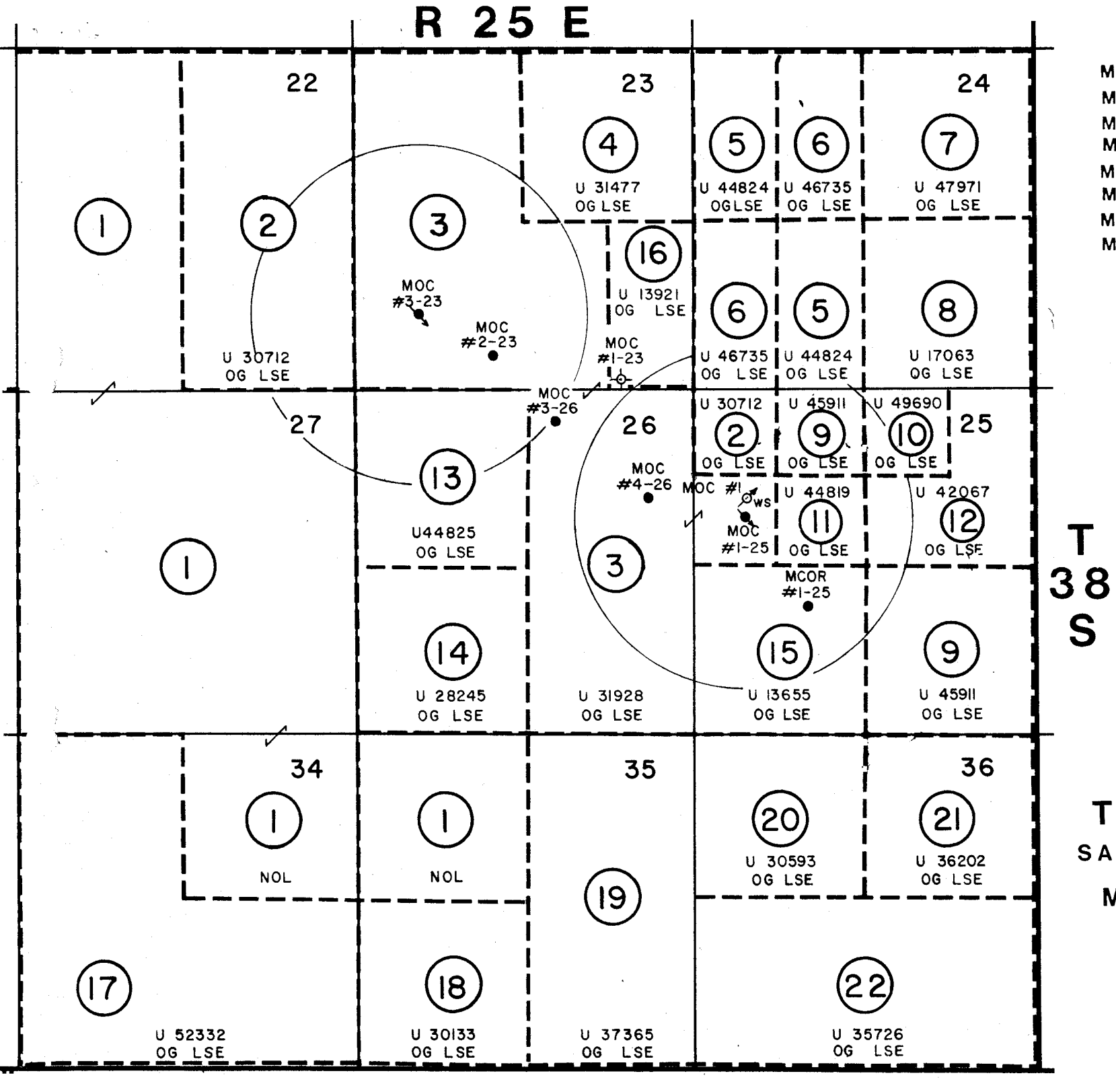

TIN CUP MESA #1-25
7000
6000
5000
1000
BHP
.3
.4
.5
.6
.7
.8
.9
1.0
1.1
1.2
1.3
BPM
Frac. Pressure 6200 psi
Ave. Perf. Depth 5420'
6200 / 5420 = 1.14psi/ft

Exhibit "L"



MOC 1-23 T.D. 5810'
MOC 2-23 T.D. 5804'
MOC 3-23 T.D. 5895'
MOC 1-25 T.D. 5714'
MOC 3-26 T.D. 5780'
MOC 4-26 T.D. 5815'
MCOR 1-25 T.V.D. 5631'
MOC 1 WS P.T.D. 3400'

TIN CUP MESA

SAN JUAN CO., UTAH

MINERAL RIGHTS

Tin Cup Mesa #1-25

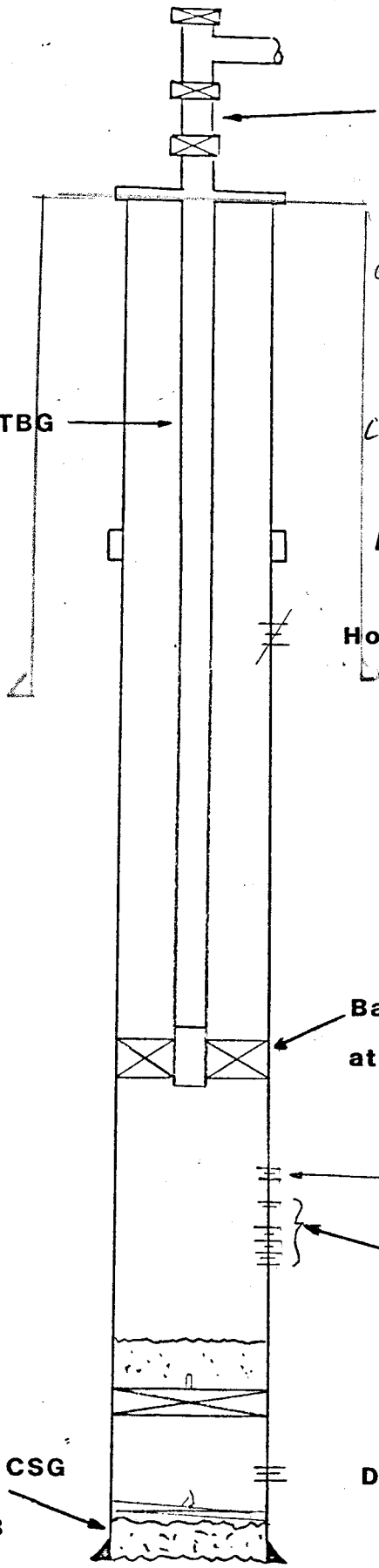
Exhibit "J"

1,950' FNL 790' FWL Section 25, T38S, R25E

Injector Conversion

4985' GL

4999' KB



Injection Zone

Ismay
5,416' KB-5,482' KB

Good Bond Across Ismay
Cement Top @ 1,520' KB

PBTD 5685'

TD 5714'

BEFORE THE DIVISION OF OIL, GAS AND MINING
Salt Lake City, Utah 84114

IN THE MATTER OF THE APPLICATION OF MARATHON OIL COMPANY, FOR ADMINISTRATIVE APPROVAL TO INJECT WATER INTO CERTAIN WELLS LOCATED IN SAN JUAN COUNTY, UTAH	)	CAUSE NO. UIC-033 AMENDED NOTICE

THE STATE OF UTAH TO ALL PERSONS, OWNERS PRODUCERS, OPERATORS, PURCHASERS AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SAN JUAN COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Marathon Oil Company, P.O. Box 2659, Casper, Wyoming 82602 is requesting that the Division authorize the approval to convert the well mentioned below, to water injection wells as follows:

Township 38 South, Range 25 East

Sec. 25, Well # 1-25 SW/NW

Township 38 South, Range 25 East

Sec. 23, Well # 3-23 SW/SW

INJECTION ZONE: (WELL # 1-25) Ismay 5416' to 5482' - (WELL # 3-23) Ismay 5578' to 5647'
MAXIMUM INJECTION PRESSURE: 3,600 psi
MAXIMUM INJECTION RATE: 3,500 to 4,000 barrels of water per day

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Marjorie L. Larson
MARJORIE L. LARSON
Adminstrative Assistant

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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.)

RECEIVED
NOV 13 1989
DIVISION OF OIL, GAS & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Surface Disturbance

2. NAME OF OPERATOR: Marathon Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1950' FNL & 790' FWL

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.: 1-25

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

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

12. COUNTY OR PARISH: San Juan

13. STATE: ~~Wyoming~~ Utah

14. PERMIT NO.: 43-037-30690

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:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	X	(Other)			
(Other) 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.)*

OIL AND GAS
RJF
GLH
JRB
DTS
SLS
2-TAS
3- MICROFILM
4- FILE

A surface disturbance is requested to construct a temporary pit approximately 10'x12'x6' in size to contain any well fluids encountered during the well work at the above referenced well. The pit will be located on the existing pad area which was previously disturbed. Once work is completed the pit will be allowed to dry then it will be backfilled.

Accepted by the State of Utah Division of Oil, Gas and Mining
Date: 11-22-89
By:

BLM-Orig & 3--cc: (Utah) SUDOGM-2, WRF, FMK, TKS, Title & Contract (Houston)

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

SIGNED R P Meaker TITLE Regulatory Coordinator DATE October 9, 1989

(This space for Federal or State office use)

APPROVED BY Dave Lodine TITLE District Mgr. DATE 11/20/89

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

*See Instructions on Reverse Side

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

2pu

Marathon Oil Company
Well No. Tin Cup Mesa 1-25
SWNW Sec. 25, T. 38 S., R. 25 E.
San Juan County, Utah
Lease U-31928

CONDITIONS OF APPROVAL

1. If fluids are discharged into the pit, the pit shall be fenced with four strands of barbed wire.

2. Accumulations of salt water in the pit shall be transferred into the previously approved salt water pit.

WRF-99

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-31928
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 #1-25
9. API Well No.: 43-037-30690
10. Field and Pool, or Exploratory Area: Tin Cup Mesa
11. County or Parish, State: San Juan County, Utah

1. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other Surface Disturbance
2. Name of Operator: Marathon Oil Company W/W
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): 1950' FNL & 790' FWL, Sec. 25, T38S, R25E

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	[X] Other Surface Disturbance	☐ 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.)*

A surface disturbance is requested to construct a temporary pit approximately 10'x12'x6' in size to contain any well fluids encountered during the well work at the above referenced well. The pit will be located on the existing pad area which was previously disturbed. Once work is completed the pit will be allowed to dry then it will be backfilled.

Accepted by the State of Utah Division of Oil, Gas and Mining
Date: 8-21-91
By:

RECEIVED
AUG 19 1991
DIVISION OF OIL GAS & MINING

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

14. I hereby certify that the foregoing is true and correct
Signed: [signature] Title: Regulatory Coordinator Date: 8/05/91

(This space for Federal or State office use)
Approved by: [signature] Title: Acting Assistant District Manager for Minerals Date: 8-12-91
Conditions of approval, if any:

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

*See Instruction on Reverse Side

operator

WRF-99

RECEIVED
SEP 0 3 1991
DIVISION OF
OIL GAS & MINING

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-31928
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 #1-25
9. API Well No.: 43-037-30690
10. Field and Pool, or Exploratory Area: Tin Cup Mesa
11. County or Parish, State: San Juan County, Utah

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): 1950' FNL & 790' FWL, Sec. 25, T38S, R25E

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
☐ Final Abandonment Notice	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Pressure Test	☐ 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 August 7, 1991, Ken Walsh of Marathon contacted Mr. Gil Hunt of the Utah Board of Oil, Gas, and Mining (UBOGM) by telephone. Mr. Hunt was informed that the packer was to be reset in Tin Cup Mesa #1-25, following remedial work to reset a cement retainer in this water injection well. Mr. Hunt was solicited, but declined, to have a UBOGM representative witness the pressure testing of the casing once the packer was set. The casing and packer were successfully pressure tested to 1000 psig surface pressure for 15 minutes on August 9, 1991. This pressure test was witnessed by Ken Walsh (Marathon Engineer), Danny Duncan (Big A Well Service Operator), and Ralph E. Smith (Wright's Roustabout Employee).

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

14. I hereby certify that the foregoing is true and correct
Signed R.P. Meabon by FMK Title Regulatory Coordinator Date 8/21/91

(This space for Federal or State office use)
Approved by Branch of Fluid Minerals, Moab District Title Date AUG 2 6 1991
Conditions of approval, if any:

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

*See Instruction on Reverse Side

COPY

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

RECEIVED
JAN 1996
DIV. OF OIL, GAS & MINING

IN REPLY REFER TO:
UT-922

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

WELL STATUS REPORTS
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME		OPERATOR	Entity#
** INSPECTION ITEM 8910203910	31761	TIN CUP MESA IS A									
8910203910	[redacted]		SWNW	25	38S	25E	[redacted]	UTU31928		MARATHON OIL COMPANY	
8910203910	[redacted]		SWNW	25	38S	25E	[redacted]	UTU31928		MARATHON OIL COMPANY	2765
8910203910	43037308080OS1	2-23	SESW	23	38S	25E	POW	UTU31928	"	MARATHON OIL COMPANY	U31928
8910203910	43037309830OS1	2-25	NWSW	25	38S	25E	POW	UTU13655	"	MARATHON OIL COMPANY	U13655
8910203910	[redacted]		SWSW	23	38S	25E	[redacted]	UTU31928	"	MARATHON OIL COMPANY	U31928
8910203910	43037310200OS1	3-25	SESW	25	38S	25E	TA	UTU13655	"	MARATHON OIL COMPANY	U13655
8910203910	[redacted]		NWNE	26	38S	25E	[redacted]	UTU31928	"	MARATHON OIL COMPANY	U31928
8910203910	[redacted]		SESW	25	38S	25E	[redacted]	UTU13655	"	MARATHON OIL COMPANY	U13655
8910203910	[redacted]		SENE	26	38S	25E	[redacted]	UTU31928	"	MARATHON OIL COMPANY	U31928
8910203910	43037313680OS1	5-26	SWNE	26	38S	25E	POW	UTU31928	"	MARATHON OIL COMPANY	U31928
8910203910	43037315400OS1	6-26	NESE	26	38S	25E	POW	UTU31928	"	MARATHON OIL COMPANY	U31928

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:

Linda F. Swan

MARATHON OIL COMPANY

A.R. Kukla

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

APPROVED AS TO FORM
TCL

TCL\MISCTCL\TCUP3\mlv

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
Cochrane Resources, Inc.
President

Enclosures

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 32S 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 Allen Company Cochrane Resources Inc.

Signature [signature] Address P.O. Box 1656
Roosevelt Utah 84066

Title President

Date 2-21-96. Phone (801) 722-5081

Comments:

(State use only)
Transfer approved by [signature] Title Environ Manager

Approval Date 4-4-96

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 Lisha Cordova

COMPANY NAME Utah Div of Oil & Gas

LOCATION

PANAFAX NUMBER: (801) 359-3940

FROM:

NAME David Goodwins EXT. 8340

TOTAL NUMBER OF PAGES: 2 (including cover sheet)

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

PHONE

COMMENTS

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:
1-LEC 7-FILM
2-DTS 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.

[XX] 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) COCHRANE RESOURCES INC
(address) PO BOX 1656
ROOSEVELT UT 84066
phone (801) 722-5081
account no. N 7015

FROM (former operator) MARATHON OIL COMPANY
(address) PO BOX 552
MIDLAND TX 79702
phone (915) 687-8155
account no. N 3490

*TIN CUP MESA UNIT

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

Name	API	Entity	Sec	Twp	Rng	Lease Type
SEE ATTACHED	037-30690					

OPERATOR CHANGE DOCUMENTATION

Lec 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)

Lec 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: _____.

Lec 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.

Lec 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)

Lec 6. Cardex file has been updated for each well listed above. (2-8-96 O&G wells) (Inj. Wells 4-3-96)

Lec 7. Well file labels have been updated for each well listed above. (2-8-96 O&G wells) (Inj. Wells 4-3-96)

Lec 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)

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

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 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/Lec 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 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.

DCS 4/8/96

N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

KDR 1. All attachments to this form have been microfilmed. Date: April 17 19 96.

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 Aprv. eff. 1-12-96.

INSPECTION FORM 6

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: TIN CUP MESA 1-25 API Number: 43-037-30690

Qtr/Qtr: SW/NW Section: 25 Township: 38S Range: 25E

Company Name: COCHRANE RESOURCES INC.

Lease: State____ Fee____ Federal X Indian____

Inspector: J THOMPSON Date: 8/24/99 9:40 AM

Initial Conditions:

Tubing - Rate: 0 Pressure: 0 psi

Casing/Tubing Annulus - Pressure:____ psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	0	0
5	1050	0
10	1025	0
15	1025	0
20	1023	0
25	1015	0
30	1015	0

Results: (Pass) Fail

Conditions After Test:

Tubing Pressure: 0 psi

Casing/Tubing Annulus Pressure: 0 psi

COMMENTS: Valve on backside - packing leak - pressure drop + - 25#'s in 5 min.

Operator Representative

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):	**TO:** (New Operator):
N7015-Cochrane Resources, Inc	N8195-Mar/Reg Oil Company
PO Box 1656	PO Box 18148
Roosevelt, UT 84066	Reno, NV 89511
Phone: 1 (435-722-5081	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

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/4/2008
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/3/2008
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/23/2008

4a. Is the new operator registered in the State of Utah: _____ Business Number: 1267088-0143

4b. If **NO**, the operator was contacted contacted on:

5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE

5b. Inspections of LA PA state/fee well sites complete on: _____

5c. Reports current for Production/Disposition & Sundries on: ok

6. **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
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: 5/28/2008
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **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:

1. Changes entered in the **Oil and Gas Database on:** 7/1/2008
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 7/1/2008
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UTB000019
2. Indian well(s) covered by Bond Number: n/a

3a. (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

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
8. WELL NAME and NUMBER: SEE ATTACHED
9. API NUMBER:
10. FIELD AND POOL, OR WILDCAT: TIN CUP MESA

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER _____
2. NAME OF OPERATOR: COCHRANE RESOURCES, INC. N7015
3. ADDRESS OF OPERATOR: PO BOX 1656 CITY ROOSEVELT STATE UT ZIP ~~84606~~ 84066 PHONE NUMBER: (435) 722-5081
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		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: CHANGE OF OPERATOR
_____	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

The successor Operator for this well will be:
Mar/Reg Oil Company
PO Box 18148
Reno, NV 89511
(775) 852-7444
N8195

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

(See Instructions on Reverse Side)

RECEIVED
JUN 03 2008
DIV. OF OIL, GAS & MINING

(5/2000)

FORM 9

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill 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
8. WELL NAME and NUMBER: SEE ATTACHED
9. API NUMBER:
10. FIELD AND POOL, OR WILDCAT: TIN CUP MESA

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR: COCHRANE RESOURCES, INC. N7015

3. ADDRESS OF OPERATOR: PO BOX 1656 CITY ROOSEVELT STATE UT ZIP ~~84606~~ 84066
PHONE NUMBER: (435) 722-5081

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

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

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 _____ 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

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

RECEIVED
JUN 04 2008
DIV. OF OIL, GAS & MINING

Exhibit A Well List

Tin Cup Mesa Unit Field

API#	Lease Type	Well Name	Well Type	County	Location	Utah Entity #
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

UIC FORM 5

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

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number: Tin Cup Mesa 1-25	API Number: 4303730690
Location of Well: Footage: 1950 FNL 790 FWL; County: San Juan; QQ, Section, Township, Range: SWNW 25 38S 25E; State: UTAH	Field or Unit Name: Tin Cup Mesa Unit; Lease Designation and Number: 8910203910

EFFECTIVE DATE OF TRANSFER: 5/1/2008

CURRENT OPERATOR

Company: Cochrane Resources, Inc.
Address: PO Box 1656
city Roosevelt state UT zip 84066
Phone:
Comments:

Name: See attached
Signature:
Title:
Date:

NEW OPERATOR

Company: Mar/Reg Oil Company
Address: PO Box 18148
city Reno state NV zip 89511-0148
Phone: (775) 852-7444
Comments:

Name: Rhonda Ahmad
Signature: Rhonda Ahmad
Title: President
Date: 6/27/08

(This space for State use only)

Transfer approved by: D. Jarvis
Title: UIC Geologist 801 538-5338
Approval Date: 7/2/08

Comments: This approval is contingent on a successful MIT. Please contact the Division to schedule the test.

RECEIVED
JUN 30 2008
DIV. OF OIL, GAS & MINING

(5/2000)

UIC FORM 5

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

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Tin Cup Mesa Unit # 1-25	API Number 4303730690
Location of Well Footage : QQ, Section, Township, Range: SWNW 25 38S 25E County : San Juan State : UTAH	Field or Unit Name Tin Cup Mesa Lease Designation and Number 8910203910 #1-25

EFFECTIVE DATE OF TRANSFER: 4/1/2008

CURRENT OPERATOR

Company: Cochrane Resources, Inc.
Address: PO Box 1656
city Roosevelt state UT zip 84066
Phone: (435) 722-5081
Comments:

Name: Ken Allen
Signature:
Title: President
Date: 6/25/2008

NEW OPERATOR

Company:
Address:
city state zip
Phone:
Comments:

Name: See attached
Signature:
Title:
Date:

(This space for State use only)

See attached

Transfer approved by:
Title:
Approval Date:

Comments:

RECEIVED
JUN 27 2008
DIV. OF OIL, GAS & MINING

(5/2000)

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 11, 2008

CERTIFIED MAIL NO: 7004 2510 0004 1824 5728

Tariq Ahmad
Mar/Reg Oil Company
P. O. Box 18148
Reno, Nevada 89511

43 037 30690

SUBJECT: Pressure Test for Mechanical Integrity, Tin Cup Mesa 1-25 Well, Section 25, Township 38 South, Range 25 East, San Juan County, Utah

Dear Mr. Ahmad:

The Underground Injection Control Program, which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five-year period beginning October 1982. Please make arrangements and ready the well for testing during the week of July 28th, 2008, as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves, etc.

2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.

3. If mechanical difficulties or workover operations make it impossible for the well(s) to be tested on this date the test(s) may be rescheduled.

4. Company personnel should meet a DOGM representative(s) at the field office or other location as negotiated.

5. All bradenhead valves with exception of the tubing on the injection well(s) must be shut-in 24 hours prior to testing.

Please contact Bart Kettle at (435) 820-0862 to arrange a meeting time and place or to negotiate a different date, if the date(s) specified is unacceptable.

Sincerely,

Dan Jarvis
Operations Manager

DJ/js

cc: Bart Kettle, Petroleum Specialist
Well File

7004 2510 0004 1824 5728

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage	

Postmark Here

Sent To: TARIQ AHMAD
Street, Apt. or PO Box No.: MAR/REG OIL COMPANY
City, State, ZIP+4: P O BOX 18148
RENO NV 89511

PS Form 3800, June 2002 — See Reverse for Instructions

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

TARIQ AHMAD
MAR/REG OIL COMPANY
P O BOX 18148
RENO NV 89511

USPS STEAMBOAT STATION RENO, NV 89511 JUL 16 2008

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (*Printed Name*) Phillip Ahmad
C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (*Extra Fee*) ☐ Yes

2. Article Number (*Transfer from service label*) 7004 2510 0004 1824 5728

PS Form 3811, February 2004 — Domestic Return Receipt — 102595-02-M-1540

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

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.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No. U-31928

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. Tin Cup Mesa

1. Type of Well
☐ Oil Well ☐ Gas Well ☑ Other

8. Well Name and No. Federal 1-25

2. Name of Operator
MAR/REG OIL COMPANY

9. API Well No. 43-037-30690

3a. Address
PO Box 18148, Reno, NV 89511

3b. Phone No. *(include area code)*
775-852-7444

10. Field and Pool or Exploratory Area Tin Cup Mesa

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
1950 ft FNL, 790 ft. FWL, Sec. 25, T38S, R25E, SLM

11. Country 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			
☐ Notice of Intent	☑ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	_____
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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.)

Problem: Hole in tubing.

April 1, 2009 Pulled tbg, removed packer, discovered scale on lower tbg, ran tbg back in hole without packer. Shut-in well, awaiting acid treatment.

July 28, 2009 Pumped 97 bbls of production water down csg to fill csg and tbg. Pumped 55 gal of 54GO solvent down tbg. Began pumping water spacer down tbg. Blew tbg hanger packing at 1000 psi. Shut down and attached water truck to csg. Pumped 17 bbl 20% HCl then 23 bbl of KCl water down tbg. Shut well down for 30 minutes. Pumped 17 bbl of KCl water. Shut well in.

Aug 31, 2009 MIRU pulling unit. Pulled tbg. RU packer and hot oil truck for tbg pressure test. Tested all jts to 1100 psi. Found 2 jts with holes. Laid down jts. Ran total of 166 jts. Pressure tested string to 1100 psi. Removed standing valve. Set packer and replaced wellhead with a flange hanger.

Sept 2, 2009 Placed injection well into production. Tbg = 1000 psi, csg = 0 psi, at a rate of 850 bwpd.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Dan Green

Title Engineer

Signature Dan Green

Date 10/21/2009

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.

(Instructions on page 2)

RECEIVED
OCT 27 2009
DIV. OF OIL, GAS & MINING

STIMULATION REPORT

PACE ACIDIZING & CEMENTING

CUSTOMER:	MAR/REG OIL COMPANY
WELL NAME:	TIN CUP 1-25
LEGAL DESCRIPTION: SEC, TWP, RNG	SEC27,T38S,R25E
COUNTY, STATE:	SAN JUAN, UT
FIELD INVOICE # :	71131
DATE:	7/28/2009
CUSTOMER REP:	DAN GREEN
SERVICE SUPERVISOR:	Williams, Dave
GPS COORDINATES:	0

FORMATION	PERFORATIONS TOP	BOTTOM	# HOLES	HOLE SIZE
DESERT CREEK	5416			
	5434			
	5454			

CASING / TUBULARS	SIZE	WGT	GRADE		DEPTH
CASING	7	26			5685
LINER	SIZE	WGT	GRADE	TOP	DEPTH
TUBING	SIZE	WGT	GRADE	PKR Y/N	DEPTH
	2 7/8	6.5			5230

JOB TYPE, ACID SPOT, ACID, BD, FRAC, OTHER	TREAT VIA, CASING, TUBING
ACID JOB	TUBING

PROPOSED JOB SUMMARY

PROPOSED PROCEDURE SUMMARY: FILL CASING;TREAT DOWN TUBING WITH 54-GO AND THEN PUMP 700 GALS OF 20% ACID

CALC CAPACITIES	bbl/ft	depth	bbl cap
TUBING	0.00579	5230	30
CASING	0.0383	5685	8.5
ANNULAR			

ACID TYPE	ACID %	ACID VOL	FRAC FLUID	BASE FLUID	FOAM %	MITCH or CIP
HCL	20%	700 GALS				

BALLSEALERS TYPE	SIZE	SP GR	# BALLS	PAD VOL (gal)	S/L Vol (gal)	MAX PROP (ppg)	PROP SIZE

MAX PRESSURE	TOT FRAC FLUID (gal)	TOTAL BASE (gal)	PROP TYPE	TOTAL PROP (lb)

ACTUAL JOB DETAILS

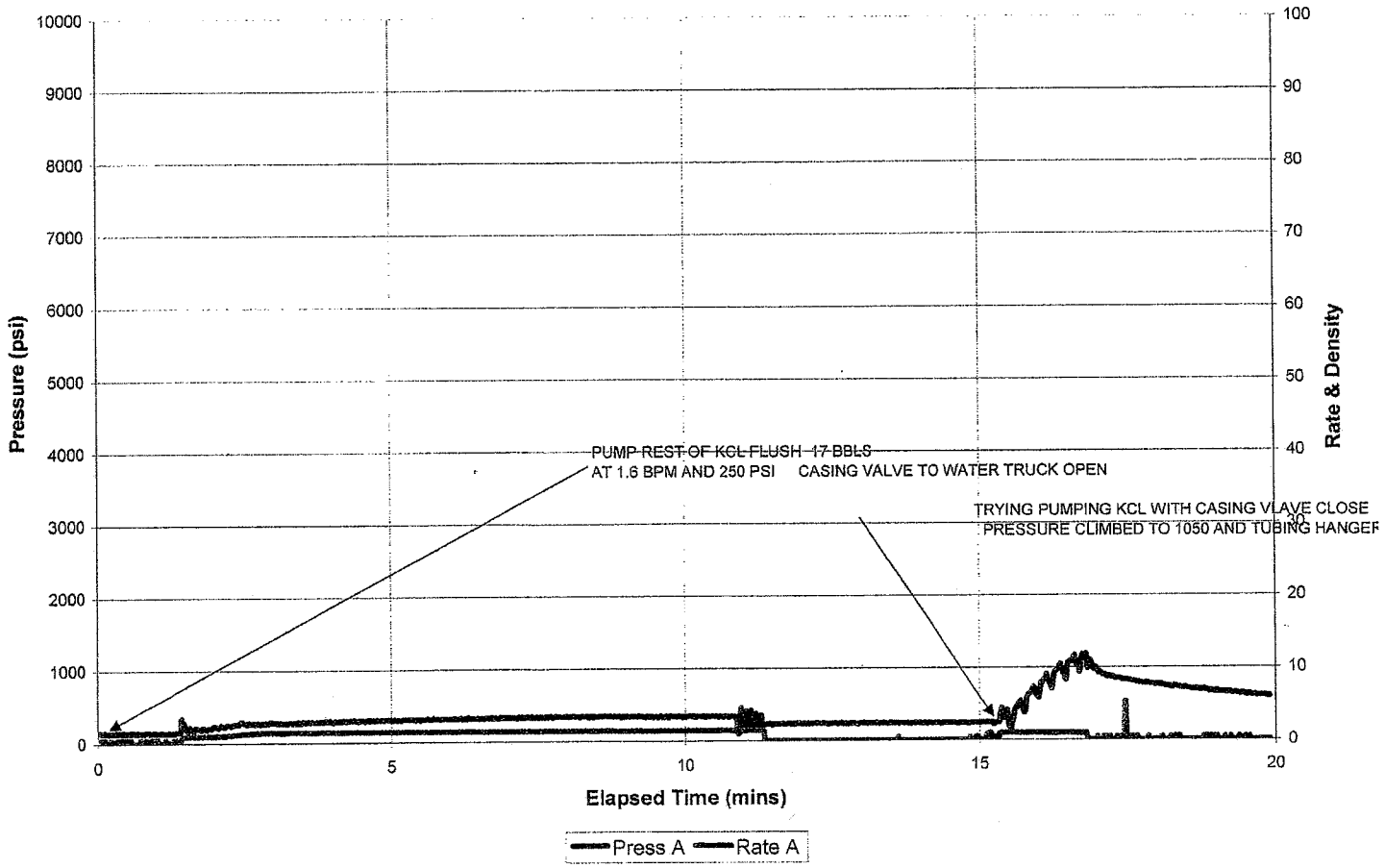
TIME	TREATING PRESSURE		SLURRY RATE BPM	SLURRY BBLS PUMPED STG	CUMM	N2 RATE, SCFM	CALC DH TOTAL RATE	SURFACE CO2/N2 PUMPED STG	CUMM	EVENT
9:30										arrive location
										discuss job procedure;jsea
										abc pumps 50 gals of 54go
	2700									rig up to well;test line to 2700 psi
	1000		1.5	1						open well start pumping water spacer
										rubber for tubing hanger blew at
										1000 psi; shut down;hook water truck
										to backside and open casing valve
	250		1.6	17						start pumping 700 gals of 20% acid
										at 1.6 bpm and 250 pressure; pump
	250			23	41					23 bbls of kcl water behind;shut down
	250			17	58					wait 30 min; pump 17 bbls of kcl water
										pump at 1.6 bpm and 250 psi
										trying pumping with casing valve
										closed; same problem at 1050 psi
										tubing hanger rubber leaked

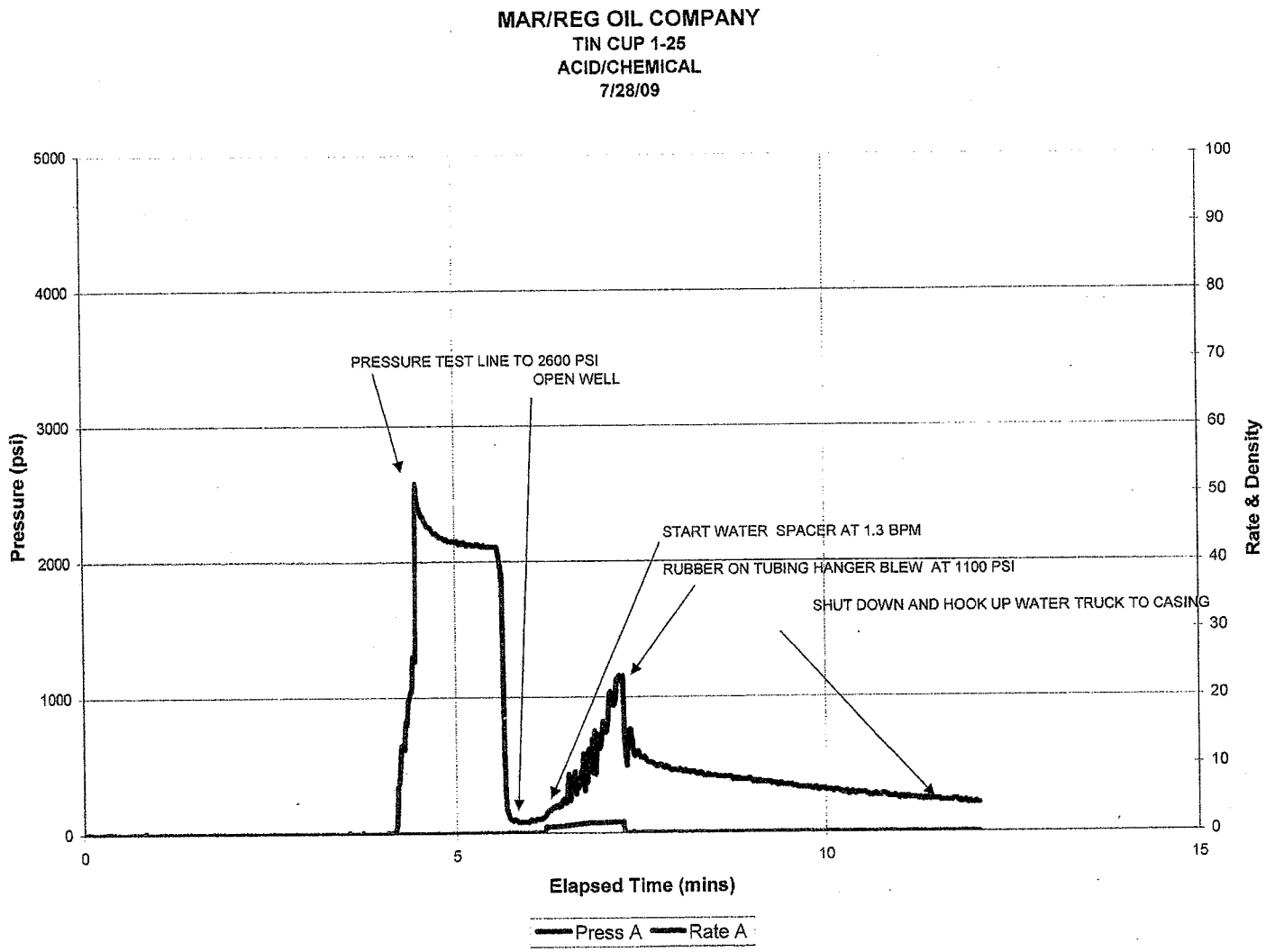
TREATING PRESSURE MIN:	250	psi	ISIP:	610	psi	MIN RATE:	1	bpm
TREATING PRESSURE MAX:	1000	psi	5 MIN SI PRESSURE:		psi	MAX RATE:	1.6	bpm
AVG TREATING PRESSURE:	250	psi	10 MIN SI PRESSURE:		psi	AVG RATE:	1.6	bpm
			15 MIN SI PRESSURE;		psi			

LOAD TO RECOVER:		
Wellbore Fluid:		bbl
Acid		bbl
Frac Fluid:		bbl
Flush/Displacement:		bbl

CUSTOMER REPRESENTATIVE:	DAN GREEN
PACE SUPERVISOR:	Williams, Dave
SIGNATURE:	

MAR/REG OILCOMPANY
TIN CUP 1-25
ACID SPOT/FLUSH
7/28/09




MAR/REG OIL COMPANY
TIN CUP 1-25
ACID/CHEMICAL
7/28/09
PRESSURE TEST LINE TO 2600 PSI
OPEN WELL
START WATER SPACER AT 1.3 BPM
RUBBER ON TUBING HANGER BLEW AT 1100 PSI
SHUT DOWN AND HOOK UP WATER TRUCK TO CASING
Pressure (psi)
Rate & Density
Elapsed Time (mins)
5000
4000
3000
2000
1000
0
100
90
80
70
60
50
40
30
20
10
0
0
5
10
15
Press A
Rate A

4	Continued from page TIN CUP 1-25 INJECTION WELL APR 1, 2009

PROBLEM: LEAK IN TBG OR PACKER, PRESS ON CSG

8:30 RIG ON LOCATION RU
9:30 NU BOP - HOT OIL ON LOCATION
10:00 BEGIN TO UNSEAT PACKER - ARROW PACKER STUCK ATTEMPTED TO UNSEAT PULLED HARD - ~~PACKER~~ PACKER JUMPED PROBABLE SHEARED PIN
11:00 BEGIN PULLING TBG
1:30 OUT OF HOLE WITH PACKER
2:00 RELEASE HOT OIL
RIG UP TO RUN TBG IN HOLE
FOUND BOTTOM 30 - 40 JTS WITH SCALE, APROXIMATELY 1/8" THICK
RUN TBG W/O PACKER - WILL REDRESS PACKER AND DESIGN ACID JOB FOR LATER.
4:00 FINISH RUNNING TBG 166 JTS
ND BOP
5:00 CREW LEFT LOCATION

Continued to page

SIGNATURE		DATE 4/1/09
DISCLOSED TO AND UNDERSTOOD BY	DATE	PROPRIETARY INFORMATION

Continued from page TIN CUP MESA 1-25 WATER INJECTION 7/28/09

PROBLEM: SCALE IN TBG AND PERFS

9:00 MET PACE AC AT HATCH TRADING POST
9:30 ON LOCATION WITH RW TRUCKING AND PACE
RU TO PUMP PROD WATER DOWN CSG
9:45 PUMP 97 BBL DOWN CSG TO 100 PSI TBG
10:30 BEGIN PUMPING 54 GO 55 GAL ON TBG
10:35 FINISH 54GO 55 GAL
10:45 BEGIN ~~20% HCL~~ PUMPING WATER FIRST
10:50 BLEW "O" RING ON WELL HEAD AT 1000 PSI
WATER TRUCK PUMPED WATER FROM TRUCK
INTO WATER TANK
11:15 WATER TRUCK HOOKED TO CSG FOR DISPLACE-
MENT - CANNOT PUMP UNDER PRESSURE
WITH BLOWN WELLHEAD
11:20 PUMP 17 BBL ACID 20% THEN 23 BBL
KCL WATER DOWN TBG - ACID ON LOWER TBG
11:45 SHUT DOWN - WAIT 30 MINUTES
12:15 PUMP 17 BBL OF KCL WATER w/ WATER TRUCK
PULLING CSG
12:30 FINISH WATER - SHUT DOWN CSG WATER
TRUCK RETURN PROD WATER TO TANK
PUMP KCL WATER DOWN TBG w/ CSG
CLOSED - PUMPED 2 BBL UNTIL PRESSURE
HIT 1000 PSI AND SPRAYED OUT WELLHEAD
12:40 BEGIN RD
1:00 WATER TRUCK OFF LOCATION
1:15 PACE OFF LOCATION
LEFT WELL SHUT-IN

Continued to page

SIGNATURE		DATE
DISCLOSED TO AND UNDERSTOOD BY	DATE	PROPRIETARY INFORMATION

8	Continued from page TIN CUP 1-25 WATER INJECTION 8/31/2009
	PROBLEM: FIND HOLE IN TBG & REPLACE HEAD PACKING

8:30 RIG ON LOCATION - TROUBLE FINDING ANCHOR DEAD MAN
PACKER ON LOCATION
9:00 BEGIN RU
10:00 RU BOP & TBG SLIPS
11:00 CULLUM HOT OIL ON LOCATION
11:15 FINISH RU BOP - BEGIN PULLING TBG
1:00 FINISH PULLING TBG - FOUND 1-JT W/ HOLE - JT 94
~~APPX 94 JTS FROM BOTTOM~~ TESTED BOTTOM JT W/ RABBIT
1:30 BEGIN RUNNING TBG - PACKER - ARROW SET TEN/COMP
7" PACKER, SN, TBG - TBG TALLIED
1:40 RU TO PRESSURE TEST - RUN 5 JTS (2 1/2 STANDS)
1:55 BEGIN PRESSURE TEST - PRESSURE TO 1000 PSI - HELD
TEST VALVE LEAKED - REPLACED TEST VALVE
2:30 RIH 20 STANDS (40 JTS) PRESSURE TEST 1250 PSI - HELD
3:10 RIH 20 STANDS (40 JTS) PRESSURE TEST WOULD NOT HOLD
3:20 RU TO PULL OUT - FOUND HOLE JT 111 - LAYED DN JT.
3:45 PRESSURE TEST 4 1/2 STAND 1100 PSI - HELD
4:05 RIH 15 STANDS (30 JTS) PRESSURE TEST 1100 PSI - HELD
4:15 RIH 10 STANDS (20 JTS) PRESSURE TEST 1100 PSI - HELD
5:00 RIH 10 STANDS PRESSURE TEST 1200 PSI - HELD
5:15 RIH 10 STANDS PRESSURE TEST 1100 PSI - HELD
SET-UP TO FISH STANDING VALVE WITH OVERSHOT
5:45 HOT OIL LEFT LOCATION
UNSEATED STANDING VALVE

Continued to page

SIGNATURE	DATE 8/31/2009
DISCLOSED TO AND UNDERSTOOD BY / DATE	PROPRIETARY INFORMATION

Continued from page TIN CUP 1-25 WATER INJECTION 9/1/2009 **9**

CONTINUED

8:00 RIG ON LOCATION

8:30 SET PACKER IN COMPRESSION - ND BOP

9:00 NIPPLE UP WELLHEAD WITH NEW WELL HEAD FLANGE

10:00 RIG DOWN RIG

10:45 RIG LEFT LOCATION

2:00 PRESSURE 900 PSI LEAK AT UNION - 650 BWPD

4:00 PRESSURE 1300 PSI LEAK AT UNION - SHUT IN

650 BWPD

9/2/2009

9:00 PUMPER REPLACE "O" RING IN UNION - NEW GAUGE TBG

9:30 START INJECTION PUMP

PRESSURE 0 PSI RATE 1100 BPD

10:30 PRESSURE 600 PSI RATE 907 BPD - 35.4 BBL CSG = 0 PSI

WDW RATE = 38 BWPD TBG = 650 PSI

11:00 TBG = 875 PSI CSG = 0 RATE = 874 BWPD TOT = 50.5 BBL

WDW TBG = 900 PSI RATE = 66 BWPD

11:15 TBG = 1000 PSI CSG = 0 RATE = 850 BWPD TOT = 60.6 BBL

WDW = TBG = 1050 PSI RATE = 86.2 BWPD

Continued to page

SIGNATURE [signature] DATE 9/2/2009

DISCLOSED TO AND UNDERSTOOD BY DATE

PROPRIETARY INFORMATION

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-31928

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: TIN CUP MESA

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: TIN CUP MESA 1-25

2. NAME OF OPERATOR: MAR/REG OIL COMPANY

9. API NUMBER: 43037306900000

3. ADDRESS OF OPERATOR: PO Box 18148 , Reno, NV, 89511

PHONE NUMBER: 755 852-7444 Ext

9. FIELD and POOL or WILDCAT: TIN CUP MESA

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1950 FNL 0790 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 25 Township: 38.0S Range: 25.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 5/21/2012
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

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

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

Changed out tubing, replaced packer and put Packer Saver Fluid backside. Tested with 1000 psi held 10 minutes.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 02, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Tariq Ahmad	775 852-7444	Petroleum Engineer

SIGNATURE	DATE
N/A	6/28/2012

RECEIVED: Jun. 28, 2012

Sundry Number: 27183 API Well Number: 43037306900000

08731

Four Corners Well Service

Billing Address:
P.O. Box 746
Farmington, NM 87499
Billing Phone: 720-326-2012

Bobby Higgins 970-560-0242
field manager & toolpusher
Stanley Goodall 505-330-2687
northern toolpusher

COMPANY: man Res
LEASE: Tin cup mesa
WELL NUMBER: fed - 1-25
STATE/COUNTY: Ut San Juan

RIG # 2 DATE: 5-30-12 SEC.:_____ T/S:____ RANGE:_____

FROM	TO	☐ WORKOVER ☐ COMPLETION WELL CODE:_____
6:00	7:30	travel time
7:30		Bleed well down. Circulate Packer fluid
		Set Packer. Rig down tongs & floor. Strip
		off bops. Flange up well head. Pressure
		test Packer. Rig down & move Rig off
	3:30	loc.

BA/NO	Description	COST	SALES ITEMS	QTY	PRICE EA	COST	DOWNHOLE EQUIPMENT		
✓	Pickup # Phone #	70.00	Supreme Strip. Rubber	1	150.00	150.00	TBG bottom hole assembly		
	Washington Strip. Head		Wash. Stripping Rubber				Jts		
	Companion Flange		2 7/8 Swab Cups				TAC		
	3000 BOP		2.00 Swab Cups				Jts		
	5000 BOP		other Swab Cups____				SN		
	Power Swivel Use Stdby		Oil saver rubbers				Jts		
	Pump Used Stdby	105.00	B.J. Tongs Dies				Rod String order		
	Pit		Slip segments				TOTAL	Polished rod & liner	
	Pipe Racks		Pipe Dope					RodSubs	
	Depthometer		Wiper Rubbers-2 3/8 2 7/8					Rods	
	Rod Fishing Tools		RIG TIME Hours	8	Rate $	250	2000	Rods	
	Rod Fish. tools destroyed		RIG TIME Hours		Rate $			Rods	
	Paraffin Knife		TRAVEL TIME Hrs	1 1/2	Rate $	160	240	Kbars	
	T.I.W. Valve		Fuel Surcharge %	3		67	20	Subs	
	Closing Unit with BOP		2697.20		FINAL TOTAL			Pump size	
	Per diem		Companyman Signature:				Print:		
	Standing Valve		Toolpusher's Signature: Robert Higgins						
	Slips - other than 2 3/8 and 2 7/8		Operators Signature: Steve Steele						
	Back off Tool								
	Standby		EMPLOYEE TIME				Rig Hrs	Yard Hrs	Accidents? YES / NO
	Flow Test		Oper	Steve Steele			9 1/2		✓
	Dry watch		DK. Man	Victor Chavez			9 1/2		✓
✓	Supervisor	50.00	FH	Tom Smith			9 1/2		✓
	Safety Equipment		FH	Bill Stucksie			9 1/2		✓
	Port a Potty		FH						

Trip out	Trip out
Trip in	Trip in
Trip out	Trip out
Tubing size	Tubing size

*Safety & Environmental Topic:*_____ Person holding meeting:_____

COMMENTS:

NEAR MISSES:

POTENTIAL HAZARDS:

Walk around pickup	Rig Highway Mileage:_____		
Tires ✓	DAILY SAFETY CHECK LIST		CONDITIONS
Lights ✓	☐ Safety Glasses	☐ Personal Protective Equipment	Road good
Windshield ✓	☐ Hard Hat	☐ No Loose fitting clothes	Weather ok
Oil ✓	☐ Steel Toe Shoes	☐ No sleeveless shirts	Wind mild

Dan Jarvis - Tin Cup MIT's

From: Bart Kettle
To: Tariq Ahmad
Date: 7/13/2012 3:38 PM
Subject: Tin Cup MIT's
CC: Dan Jarvis; dgreen@pemc.us

38 S 25 E 25

Tariq,

Per our conversation earlier today authority to inject will be granted following MIT's for the WDW 1 (43-037-31761) and Tin Cup Mesa 1-25 (43-037-3069[illegible]). Because a pressure loss was observed, as part of the authority to inject the Division requires that injection pressure on the tubing and annuals pressure on the casing is monitored and recorded daily on a meter chart. The scheduled MIT interval will be 24 months. If you have questions, feel free to contact me.

Bart Kettle
Environmental Scientist
Office 435-613-3734
Cellular 435-820-0862

Mar/Reg Oil Company

August 19, 2014

Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, UT 84114-5801

RECEIVED
AUG 21 2014
DIV. OF OIL, GAS & MINING

Subject: Plan of action for Tin Cup Mesa 1-25, API #43-037-30690
San Juan County, Utah 25 38S 25E

Dear DOGM:

We are in receipt of your letter dated August 19, 2014, we have reported monthly injection reports for the disposal and injection wells. In reference to this well, we have reported no injection volumes since October 2012 as we had stopped injection into the field in order to test the formation dewatering.

We have filed a sundry notice today to change status of the well to TA until further notice.

If you have any questions please call.

Sincerely,

Tariq Ahmad

P.O. Box 18148
Reno, Nevada 89511
Phone: 775 852-7444
Fax: 775 851-1138

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 12, 2014

Certified Mail No. 70112970000188282051

MAR/REG Oil Company
P. O. Box 18148
Reno, NV 89511

SUBJECT: Plan of action for Tin Cup Mesa 1-25, API# 43-037-30690, San Juan County, Utah:

Gentlemen:

On August 7, 2012 pressure was recorded on the annulus gauge for the Tin Cup Meas 1-25. At that time company representation was unsure of plans as they related to well repair. Since that time limited correspondence has occurred between the Division and MAR/REG Oil Company. Therefore I'm issuing this letter as a reminder that under the Underground Injection Control program (UIC) operators are allowed 120 days to plug or repair injection wells failing MIT tests. Plans to repair, or plug well shall be submitted to the Division by November 10, 2014. Well shall be plugged or repaired by December 10, 2013.

Response should be directed to:

Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, UT 84114-5801

If you have questions feel free to contact me at (435) 820-0862.

Sincerely,

Bart Kettle
Environmental Scientist

bk/dj/js

cc: Dan Jarvis, Operations Manager
Well File

7011 2970 0001 8828 2051

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	

8/13/2014

Postmark Here

Sent T

Street or PO

City, S

MAR/REG OIL COMPANY
PO BOX 18148
RENO NV 89511

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MAR/REG OIL COMPANY
PO BOX 18148
RENO NV 89511

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X M. Schultz ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* M. Schultz C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

RECEIVED
AUG 20 2014
DIV. OF OIL, GAS & MINING

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from service label)* 7011 2970 0001 8828 2051

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-31928

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: TIN CUP MESA

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: TIN CUP MESA 1-25

2. NAME OF OPERATOR: MAR/REG OIL COMPANY

9. API NUMBER: 43037306900000

3. ADDRESS OF OPERATOR: PO Box 18148 , Reno, NV, 89511

PHONE NUMBER: 755 852-7444 Ext

9. FIELD and POOL or WILDCAT: TIN CUP MESA

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1950 FNL 0790 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 25 Township: 38.0S Range: 25.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 10/1/2012
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

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

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

Mar/Reg has stopped injected water into the Tin Cup field in order to dewater the field and test production. Water Injection was stopped October 2012. Well is Shut In pending review of field response

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
September 04, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Tariq Ahmad	775 852-7444	Petroleum Engineer

SIGNATURE	DATE
N/A	8/19/2014

RECEIVED: Aug. 19, 2014

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

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.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

5. Lease Serial No.
UTU 31928

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
Tin Cup Mesa

1. Type of Well
☐ Oil Well ☐ ☐ ☐ Gas Well ☐☐ ☑ Other

8. Well Name and No.
Tin Cup Mesa 1-25

2. Name of Operator **Mar/Reg Oil Company**

9. API Well No.
43-037-30690

3a. Address
PO Box 18148, Reno, NV 89511

3b. Phone No. *(include area code)*
775 852 7444

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
1950 FNL 0790 FWL

11. County or Parish, State
San Juan Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other
	☐ Change Plans	☐ Plug and Abandon	☑ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The injection well is shut in since October 2012 in order to dewater the reservoir. Well Status needs to be changed to TA. Operator is conducting a study to determine the effect of dewatering on production.

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)* **Tariq Ahmad** Title **Petroleum Engineer**

Signature Date **08/19/2014**

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.

(Instructions on page 2)

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-31928

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: TIN CUP MESA

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: TIN CUP MESA 1-25

2. NAME OF OPERATOR: MAR/REG OIL COMPANY

9. API NUMBER: 43037306900000

3. ADDRESS OF OPERATOR: PO Box 18148 , Reno, NV, 89511

PHONE NUMBER: 755 852-7444 Ext

9. FIELD and POOL or WILDCAT: TIN CUP MESA

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1950 FNL 0790 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 25 Township: 38.0S Range: 25.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 10/2/2014
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

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

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

BLM approvalfor TA status

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
November 06, 2014

NAME (PLEASE PRINT) Tariq Ahmad

PHONE NUMBER 775 852-7444

TITLE Petroleum Engineer

SIGNATURE N/A

DATE 10/9/2014

RECEIVED: Oct. 09, 2014

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

RECEIVED
MOAB FIELD OFFICE
2014 AUG 22 AM 8:08

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.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

5. Lease Serial No.
UTU 31928

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
Tin Cup Mesa

1. Type of Well
☐ Oil Well ☐ ☐ ☐ Gas Well ☐ ☐ ☑ Other

2. Name of Operator **Mar/Reg Oil Company**

8. Well Name and No.
Tin Cup Mesa 1-25

3a. Address
PO Box 18148, Reno, NV 89511

3b. Phone No. *(include area code)*
775 852 7444

9. API Well No.
43-037-30690

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
1950 FNL 0790 FWL

11. County or Parish, State
San Juan Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other
	☐ Change Plans	☐ Plug and Abandon	☑ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The injection well is shut in since October 2012 in order to dewater the reservoir. Well Status needs to be changed to TA. Operator is conducting a study to determine the effect of dewatering on production.

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)* **Tariq Ahmad** Title **Petroleum Engineer**

Signature Date **08/19/2014**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Beth Ransel Title Field Manager Date 10/2/14

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 Moab Field 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.

(Instructions on page 2)

CONDITIONS OF APPROVAL ATTACHED

Temporary Abandonment
Mar/Reg Oil Company
Tim Cup Mesa 1-25
Lease UTU31928
Section 25 T38S, R25E
San Juan County, Utah

NOTE: As the status implies, wells are only intended to remain temporarily abandoned (TA) for a brief period while other operations and/or permits are being pursued. Wells in TA status pose a liability that will be considered in determining appropriate bond value.
Wells that are not capable of production in paying quantities must promptly be plugged--*43 CFR 3162.3-4.*

CONDITIONS OF APPROVAL

1. Approval to retain this well in Temporarily Abandoned (TA) status is granted for the maximum term of one year months, through September 30, 2015, pursuant to *43 CFR 3162.3-4(c)*. Records indicate the well has been inactive for two years, since October, 2012.

2. During the approval term the operator shall return the well to active service, establish production, or plug and abandon the well.

3. Written approval is required prior to conducting recompletion operations and/or plugging operations on a well (*43 CFR 3162.3-2)*. Any proposal to conduct these operations must be submitted to this office in advance.

4. Should this well begin production of oil and gas, the BLM must be notified within five days. Notification may be verbal, but must be confirmed in writing *(43 CFR 3162.4-1(c))*.

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-31928

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: TIN CUP MESA

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: TIN CUP MESA 1-25

2. NAME OF OPERATOR: MAR/REG OIL COMPANY

9. API NUMBER: 43037306900000

3. ADDRESS OF OPERATOR: PO Box 18148 , Reno, NV, 89511 **PHONE NUMBER:** 755 852-7444 Ext

9. FIELD and POOL or WILDCAT: TIN CUP MESA

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1950 FNL 0790 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 25 Township: 38.0S Range: 25.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 4/30/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Request for Extension

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

Request an extension to conduct remedial work. Request extension to April 30, 2015. Operator will monitor casing pressure weekly and file pressure report monthly.

Approved by the Utah Division of Oil, Gas and Mining
January 30, 2015
Date:
By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Tariq Ahmad	775 852-7444	Petroleum Engineer
SIGNATURE N/A		**DATE** 10/29/2014

RECEIVED: Oct. 29, 2014

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-31928

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	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Request for Extension

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Request an extension to conduct remedial work. Request extension to April 30, 2015. Operator will monitor casing pressure weekly and file pressure report monthly.

Approved by the Utah Division of Oil, Gas and Mining

Date: 10/31/14

By: D. Jones

COPY SENT TO OPERATOR
Date: 11.3.2014
Initials: KS

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Tariq Ahmad	775 852-7444	Petroleum Engineer
SIGNATURE N/A		**DATE** 10/29/2014

RECEIVED: Oct. 29, 2014

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

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

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QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 25 Township: 38.0S Range: 25.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
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☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Proposal to recomplete well in Desert Creek Formation

April 14, 2015

Approved by the
Utah Division of
Oil, Gas and Mining

Date:

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Tariq Ahmad	775 852-7444	Petroleum Engineer
SIGNATURE		**DATE**
N/A		3/20/2015

RECEIVED: Mar. 20, 2015

Tin Cup Federal 1-25
Recompletion Proposal

Well Bore

Current configuration

Surface 9 5/8 in set at 1557 cemented to surface.
Production 7" 26# K-55; TOC at 1552 from CBL Log

Perforations:	2912-2916	squeezed
	5152-5162	squeezed
	5416-5426	open
	5434-5438	open
	5447	Cement retainer
	5454-5473	open below retainer set at 5447
	5530	HOWCO (Halliburton) EZ Drill Cement retainer with 10 ft. of cement on top
	5652-5662	squeezed; test 20 BOPD 100 MCFPD

Proposed Program

Recompletion

Note:
Proposing to squeeze the open perfs above the cement retainer, drill out both existing cement retainers and produce out of the Lower Ismay and the Desert Creek.

RIH with scraper to 5440 ft.
RIH with wireline cement retainer to 5411 ft.
RIH with cementing BHA on tbg to squeeze 5416-5426 ft. and 5434-5438 ft.
Squeeze with 20 sacks of cement. (zone on vacuum.)
POOH
RIH with bit.
Drill out cement retainer at 5411 ft.
Drill out cement.
Drill out cement retainer at 5447 ft.
Drill out cement retainer at 5530 ft.
Tag bottom.
POOH
RIH with scraper to bottom.
POOH
RIH with tubing to 5600 ft.
Perforate 5652-5662 KB
Breakdown with acid.
Swab back.
Lower tbg to 5670 ft.
RIH with rod and pump.

RECEIVED: Mar. 20, 2015

Place in production.

RECEIVED: Mar. 20, 2015