

FILE NOTATIONS

Photo Production 2-20-75

Entered in NID Elle
Location Map Planned
Card Indexed
(checkmarks)

Checked by Chief *pub*
Approval Letter *9.20.74*
Disapproval Letter ...

COMPLETION DATA:

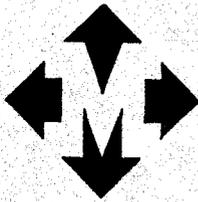
Date Well Completed *4-4-75*
W..... WW..... TA.....
LW..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log.....
Electric Logs (No.) *✓*.....
E..... F..... Dual I Log..... GR-N..... Micro.....
BHC Sonic GR..... Log..... MI-L..... Sonic.....
CSLog..... CCLog..... Others.....

Confidential status released 11-18-75



mapco
INC.

PRODUCTION DIVISION

September 23, 1974

U. S. Geological Survey
Conservation Division
8426 Federal Building
125 South State Street
Salt Lake City, Utah 84138

ATTENTION: District Engineer

Re: MAPCO, Hope Unit No. 2-8
NE SW Section 8
T. 11 S., R. 21 E.
Uintah County, Utah

Gentlemen:

Enclosed please find three (3) copies each of the following for the captioned well:

- (1) Well Survey Plat
- (2) Application for Permit to Drill
- (3) USGS 7-Point Information
- (4) Proposed 12-Point Development Plan plus accompanying Plats
- (5) Designation of Agent

Very truly yours,

MAPCO INC.

Original Signed
E. J. Milt

E. J. Milt,
Manager of Operations
Northern District

/awm

Enclosures

cc: Mr. Guy D. Irvin, MAPCO Inc., Tulsa, Oklahoma
Land Department, MAPCO Inc., Tulsa, Oklahoma
Div. of Oil & Gas Conservation, State of Utah, Salt Lake City

248-7406

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 MAPCO Inc.

3. ADDRESS OF OPERATOR
 Suite 320, Plaza West
 1537 Avenue D, Billings, Montana 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface NE/4 SW/4 Section 8, T. 11 S., R. 21 E.,
 At proposed prod. zone (2147' FSL & 1873' FWL) Uintah County, Utah
 Same OK

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 15 miles Southeast from Ouray, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1873 feet

16. NO. OF ACRES IN LEASE 640

17. NO. OF ACRES ASSIGNED TO THIS WELL 640

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1400 feet

19. PROPOSED DEPTH 9600 feet

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5459' Ungraded Ground

22. APPROX. DATE WORK WILL START*
 September 30, 1974

5. LEASE DESIGNATION AND SERIAL NO.
 U-8345

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Hope Unit

8. FARM OR LEASE NAME
 Federal (Hope Unit)

9. WELL NO.
 2-8

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M. OR BLM. AND SURVEY OR AREA
 Section 8
 T. 11 S., R. 21 E.

12. COUNTY OR PARISH
 Uintah

13. STATE
 Utah

1969
1022
2702
1968
1022
2702

23. PROPOSED CASING AND CEMENTING PROGRAM:

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	2000'	As required
8-3/4"	7"	23#	6600'	As required
6-1/8"	5" (liner)	18#	9600'	As required

This well will be drilled from surface to total depth with rotary drilling equipment including B.O.P. assembly as follows: 10" Series 900 Hydrii, 10" Series 900 Shaffer doublegate.

Approve
Must meet 4569 spec.

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 *E. J. Milt* TITLE Manager of Operations Northern District DATE Sept 23, 1974

PERMIT NO. 43-049-30189 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

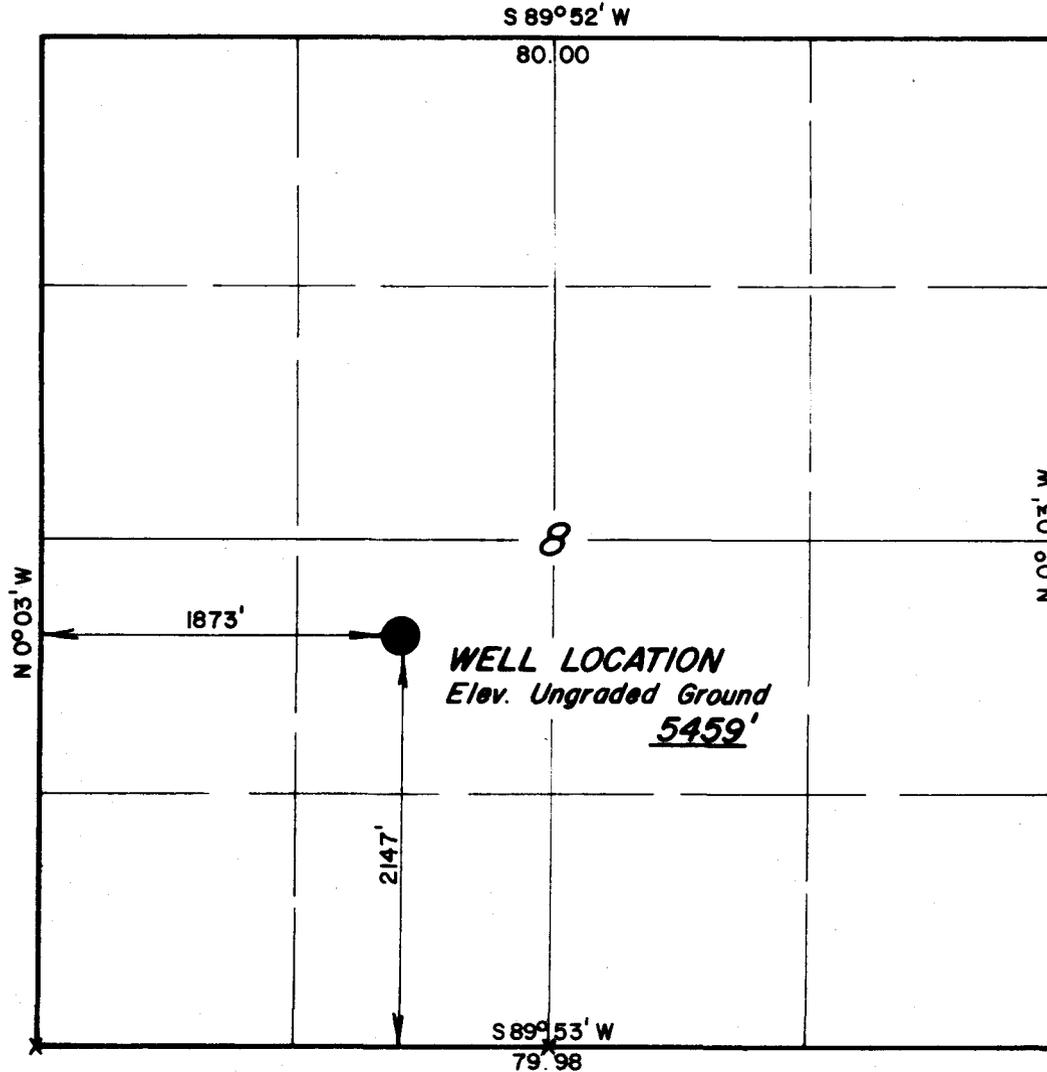
CONDITIONS OF APPROVAL, IF ANY:

T11S, R21E, S.L.B.&M.

PROJECT SEP 19 1974

MAPCO INCORPORATED

Well location, located as shown in
the NE 1/4 SW 1/4, Section 8,
T11S, R21E, S.L.B.&M.
Uintah County, Utah.



CERTIFICATE

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

Gene Stewart
REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

X = Section Corners Located

SCALE 1" = 1000'	DATE Sept. 17, 1974
PARTY L.D.T. W.P.	REFERENCES GLO Plat
WEATHER Cool	FILE MAPCO INC.

MAPCO, HOPE UNIT NO. 2-8
NE SW SECTION 8, T. 11 S., R. 21 E.
UINTAH COUNTY, UTAH

- USGS SEVEN-POINT INFORMATION -

1. Surface Casing: 9-5/8", 36#, K-55, STC new casing set at 2000'.
2. (a) Casinghead: 9-5/8" OD Slip On X 10" 3000 psi WP
(b) Tubinghead: 10" 3000 psi WP X 6" 3000 psi WP
(c) Adapter: 6" 3000 psi WP X 2-1/2" 5000 psi WP
(d) Christmas Tree: 2-1/2" 3000 psi WP

3. Intermediate Casing: 7", 23#, K-55 LTC new casing set at 6600'.

4. Blowout Preventers: (a) 10" 900 Series Hydril
(b) 10" 900 Series Shaffer Double (Pipe & blind rams).

Fill line connection between flow line and top of BOP assembly.

Kill line connection below the BOP assembly.

Choke line connection below BOP assembly consisting of a valve, line to choke, choke, valve, line to burn pit.

5. Auxiliary equipment: (a) Kelly cock
(b) Full opening valve on floor with DP connection for use when Kelly is not in string.
6. Maximum pressure expected to be 4200 psi at total depth of 9600'.
7. Drilling fluid will be a water base fluid with sufficient rheological properties to clean the hole and control the formations and formation fluids encountered.

MAPCO, HOPE UNIT NO. 2-8

NE SW SECTION 8, T. 11 S., R. 21 E.

UINTAH COUNTY, UTAH

- PROPOSED 12-POINT DEVELOPMENT PLAN -

1. Existing roads including location of the exit from the main highway: See Plats 1 and 2.
2. Planned access roads: See Plat 1.
3. Location of existing wells: See Plats 1 and 3.
4. Lateral roads to well locations: None.
5. Location of tank batteries and flow lines: See Plat 4.

NOTE: This well is proposed to completion in the known Wasatch-Mesaverde Gas Reservoir. Therefore, a tank battery is not required. If the well is a success, considerable additional development will follow at which time a detailed development plan will be prepared.
6. Location and type of water supply:

Water for drilling operations will have to be hauled in from either the Green River (12 - 15 miles), the White River (12 miles) or Willow Creek (3 miles), depending on water flow at the time operations are conducted.
7. Methods for handling waste disposal:

A burn pit will be prepared on the well location for burning combustible trash. All non-combustible trash and garbage will be placed in the mud pit after completion or abandonment of the well, and buried. Drill cuttings will be placed in the mud reserve pit.
8. Location of camps: None in area.
9. Location of airstrip: None in area.
10. Location of layout: See Plat 5.

11. Plans for restoration of the surface:

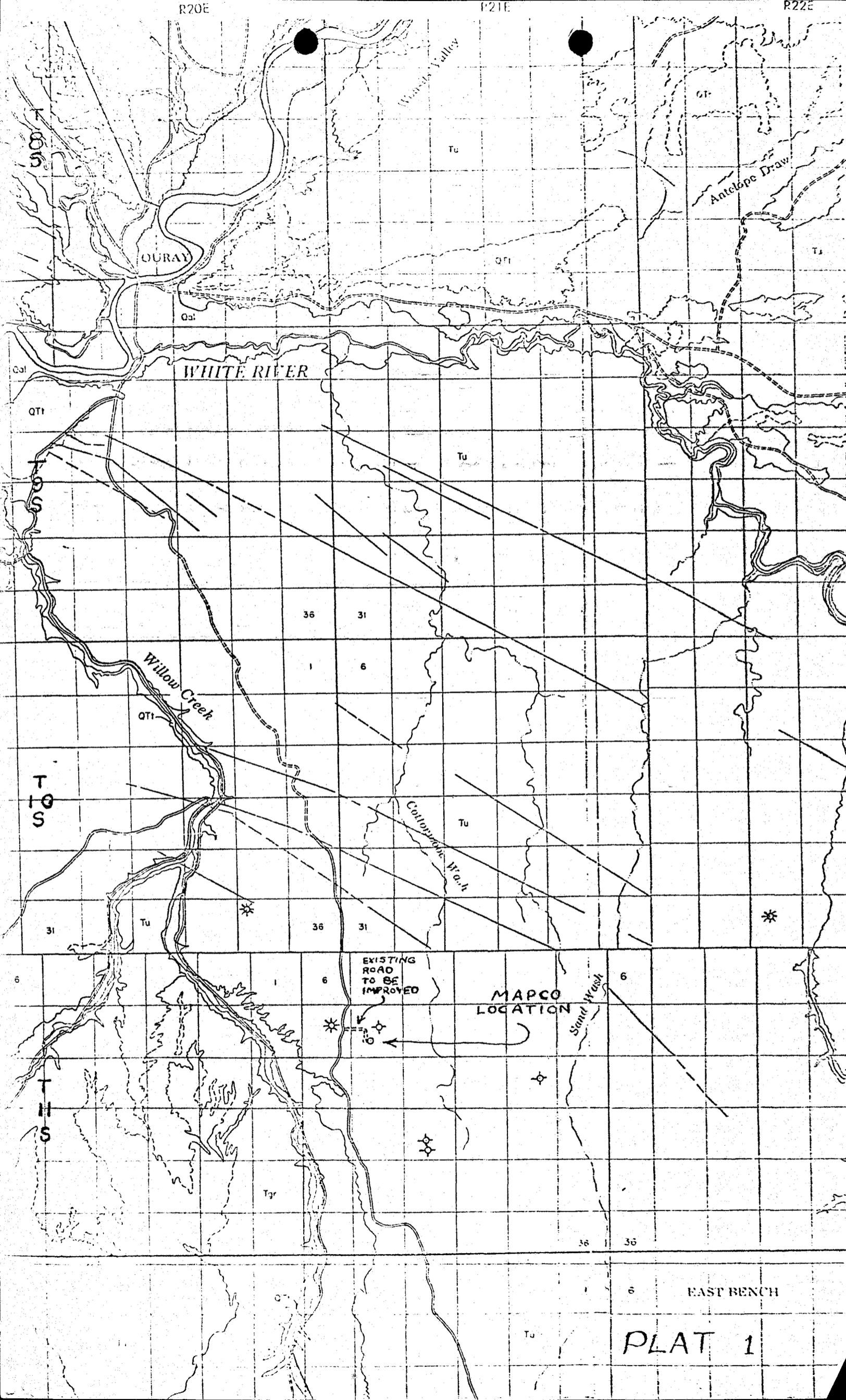
The drill site is in a very arid area with little or no surface vegetation and frequent "rock" outcroppings on the surface. Therefore, it is not planned to stockpile topsoil. The surface will be restored, as near as possible, to its original state after completion of the operation. Bureau of Land Management requirements will be met.

12. Other information evaluating the impact on environment:

The topography of the area is of generally undulating rolling hills, bisected by occasional steep walled washes. The rocks of the Tertiary Eocene Uinta Formation are well exposed in the area. A relatively thin soil exists, which supports a sparse vegetation of grasses, sage brush (Artemesia), and types of salt brush (Chrysothamnus). The area is very dry, probably receiving less than 9" annual rainfall which is average for the entire Uinta Basin.

The drill site is located on a plateau, and the terrain is rough and rocky. The area does not appear suitable for grazing or raising cultivated crops. Topography is gentle and rolling on the drill site, with a dry gulch type drainage system generally in the area. However, the drill site has been laid out to keep cut and fill to a minimum and away from the drainage pattern.

An inspection of the drill site by representatives of the Bureau of Land Management was made on September 20, 1974. During this inspection it was determined that an "old" road to the drill site could and would be used, which would minimize road building.



OURAY

Wanda Valley

Antelope Draw

WHITE RIVER

Willow Creek

Colorado Wash

Sand Wash

EXISTING ROAD TO BE IMPROVED

MAPCO LOCATION

EAST BENCH

PLAT 1

PLAT 3

R 17 E

R 18 E

R 19 E

R 20 E

R 21 E

R 22 E

SEE PAGE 17

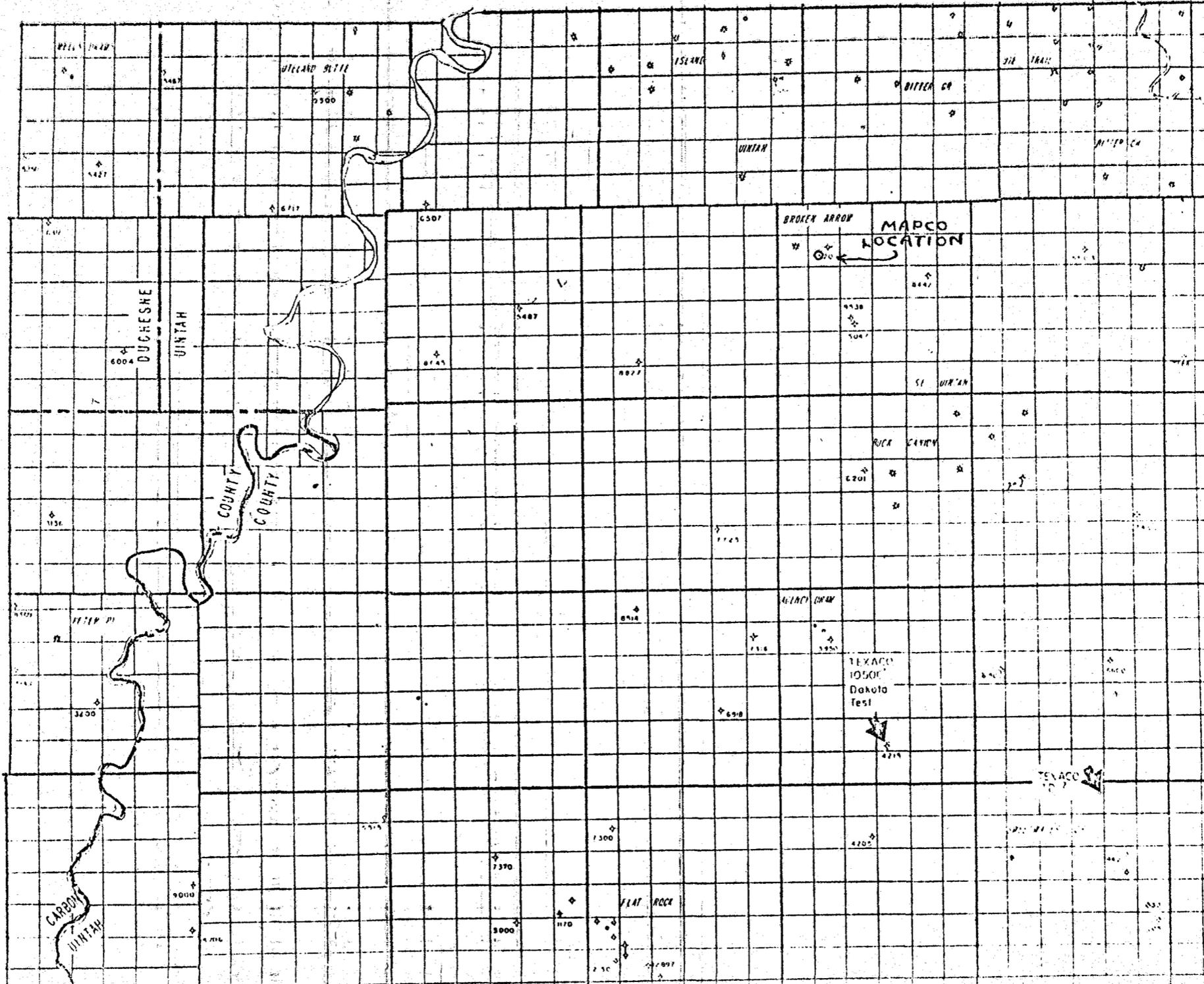
T 10 S

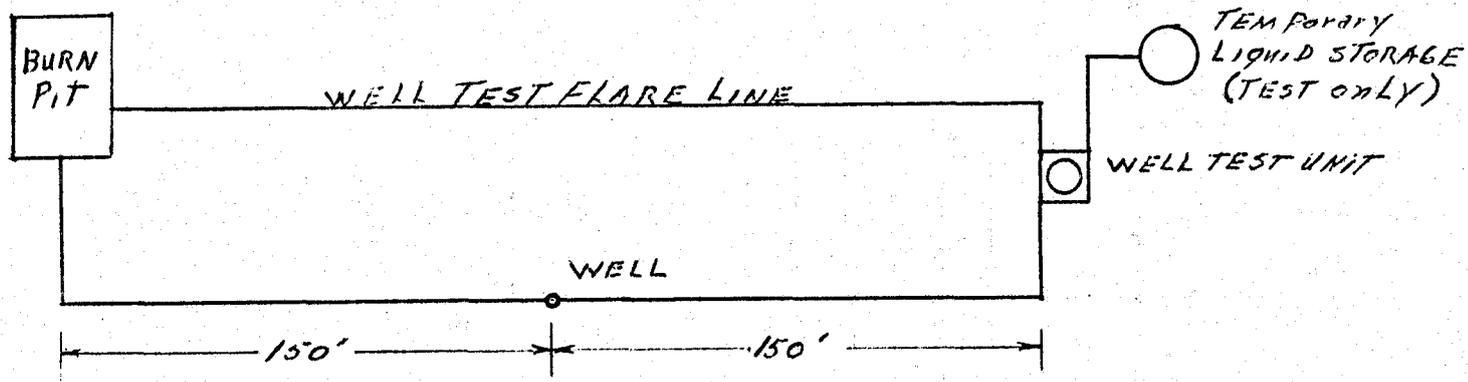
T 11 S

T 12 S

T 13 S

T 14 S



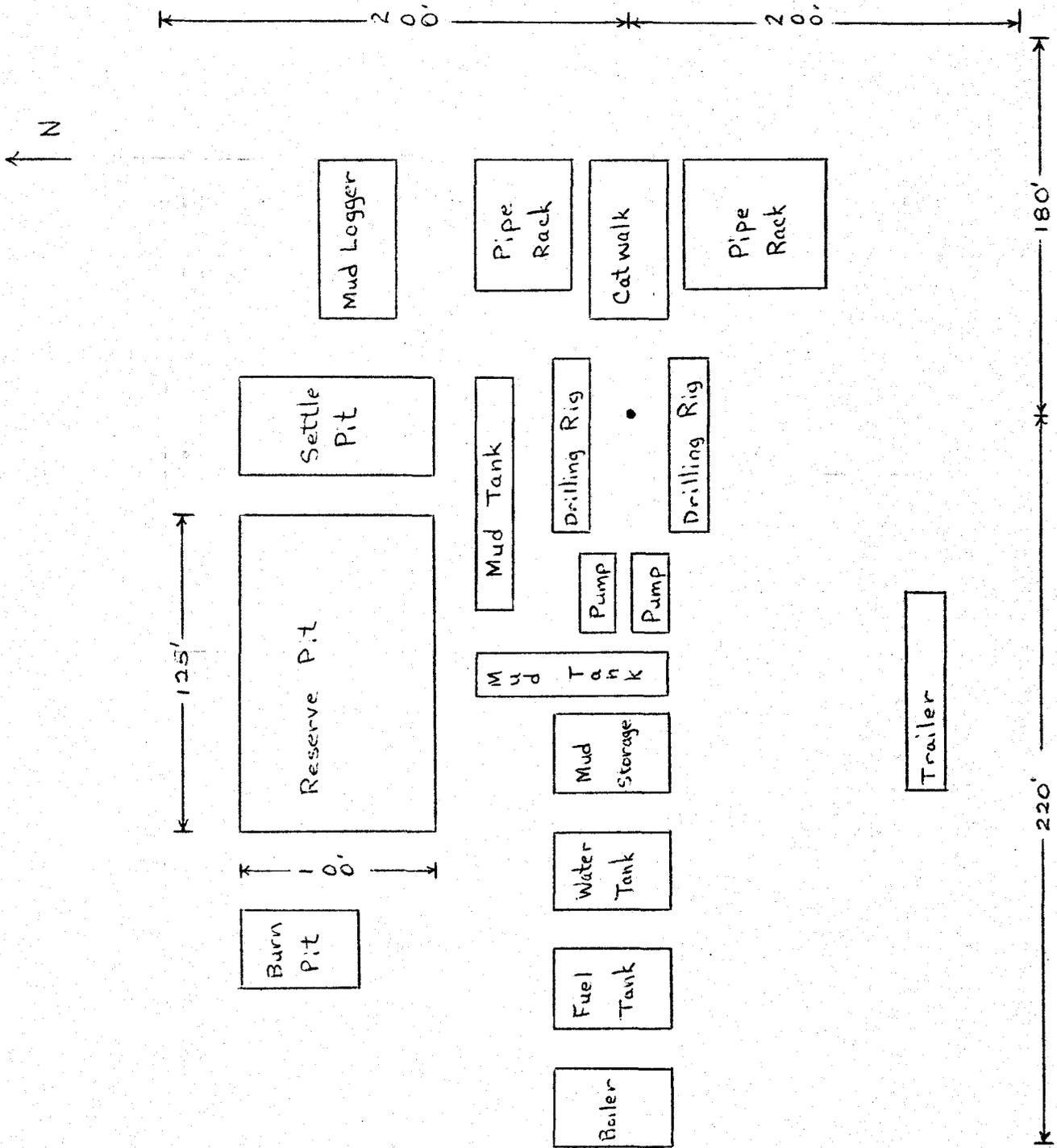


TEST FACILITIES TO BE PLACED ON SAME LOCATION WITH WELL
 PERMANENT FACILITIES WILL BE INCLUDED IN A PLAN OF
 DEVELOPMENT IF PRODUCTION IN COMMERCIAL, ECONOMIC
 AMOUNTS ARE ESTABLISHED. THIS IS A KNOWN NATURAL GAS
 RESERVOIR WHICH WILL REQUIRE EXTENSIVE TESTING AND
 STIMULATION TO DETERMINE IF AN ECONOMIC COMPLETION
 CAN BE MADE.

HOPE UNIT NO 2-8

PROPOSED RIG LAYOUT

NE/4 SW/4 SECTION 8, T11S, R21E, UTAH COUNTY, UTAH



September 19, 1974

United States Department of the Interior
Geological Survey
P. O. Box 2859
Casper, Wyoming 82601

Attention: Supervisor of Oil
and Gas Operations

Re: Hope Unit Well #2-8
NE/4 SW/4 Sec. 8-11S-21E SLM
Uintah County, Utah

Gentlemen:

You will find enclosed the original and two copies of an instrument entitled Designation Of Agent executed by the General Hydrocarbons Corporation in favor of MAPCO Inc. by which MAPCO Inc. has been designated as agent for the purpose of drilling and completing the well captioned above.

Very truly yours,

ORIGINAL SIGNED BY
D. D. RITTER

D. D. Ritter
Assistant Manager
Land Department

DDR:jk
Enclosures

✓ cc Ed Milt

DESIGNATION OF AGENT

Supervisor, Oil and Gas Operations:

The undersigned is, on the records of the Geological Survey, Unit Operator under the Hope unit agreement, Uintah County, Utah (state), No. 14-08-0001-13724 approved March 12, 1973 and hereby designated:

NAME: MAPCO Inc.

ADDRESS: 1437 So. Boulder Ave., Tulsa, Oklahoma 74119

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. Hope 2-8, in the NE 1/4 SW 1/4 Sec. 8, T 11S, R 21E, SLM, Uintah 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 action requiring specific authorization of the Unit Operator.

~~GENERAL HYDROCARBONS CORPORATION~~
Unit Operator

August 27, 1974

By: Herbert M. Zandmer

Its Attorney in Fact

Herbert M. Zandmer
President

September 30, 1974

Mapco Inc.
Suite 320, Plaza West
1537 Avenue D
Billings, Montana 59102

Re: Well No. Hope Unit Federal #2-8
Sec. 8, T. 11 S, R. 21 E,
Uintah County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the General Rules and Regulations. Said approval is, however, conditional upon receiving the necessary approval from the U.S. Geological Survey and/or the Bureau of Land Management.

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

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-047-30189.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sw
cc: U.S. Geological Survey

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1974,

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102

Phone 406/248-7406 Signed J. D. Holliman J. D. Holliman
Agent's title Mgr. of Operations, No. Dist.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 8	11S	21E	1							SPUDDED: 10-18-74 Drilled 12-1/4" hole to 2030'. Ran 46 jts. 9-5/8", 36#, K-55, STC csg. Cemented with 350 sx. 65-35 Poz. and 200 sx. class "G". Csg. landed at 2022'. Drilled to 4425', 10-31-74

NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
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NE SW Sec. 8	11S	21E	1							Drilled from 4425' to 6184'. Ran DST #1 6082-6184'. Drilled from 6184-8600 thru 11-30-74. Results of DST #1 below:

DST # 1: 6,082-6,184': Halliburton tested indicated interval with packers set at 6,075' and 6,082'. Tool for initial flow period opened at 11:35 AM, 11-11-74. BHT 198°F.

- IH 3,126 psi.
- IF 20 minutes, open-135 psi, close-108 psi, opened with weak blow increased to 2" in bucket of water.
- ISI 60 minutes, 378 psi.
- FF 120 minutes, open-122 psi, close-122 psi, opened with weak blow increased to 12" in bucket of water in 53 minutes and remained same for 67 minutes. No gas to surface. (Maximum flow 1.95 MCFD).
- FSI 120 minutes, 944 psi.

Sample chamber had 800 psi and 132°F. Recovered 1,700 cc of mud with resistivity of .98 ohms at 72 F, 5,000 ppm chlorides and 0.9 cubic ft. gas.

Pit mud resistivity .98 ohms at 72°F and 5,000 ppm chlorides. Mud filtrate resistivity .82 ohms at 132°F and 3,800 ppm chlorides.

NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

FLUID SAMPLE DATA				Date	Ticket Number	
Sampler Pressure <u>800?</u> P.S.I.G. at Surface				11-14-74	874048	
Recovery: Cu. Ft. Gas <u>.9</u>				Kind of Job	Halliburton District	
cc. Oil <u>NONE</u>				OPEN HOLE	VERNAL	
cc. Water <u>NONE</u>				Tester	Witness	
cc. Mud <u>1700</u>				CANTRELL	JOHNSON	
Tot. Liquid cc. <u>1700</u>				Drilling Contractor	PEASE DRILLING COMPANY NM	
Gravity _____ ° API @ _____ ° F.				EQUIPMENT & HOLE DATA		
Gas/Oil Ratio _____ cu. ft./bbl.				Formation Tested	Wasatch	
RESISTIVITY _____ CHLORIDE CONTENT _____				Elevation	5472' K.B. Ft.	
Recovery Water _____ @ _____ ° F. _____ ppm				Net Productive Interval	14' Ft.	
Recovery Mud <u>.98</u> @ <u>72</u> ° F. <u>5000</u> ppm				All Depths Measured From	Kelly Bushing	
Recovery Mud Filtrate <u>.82</u> @ <u>132</u> ° F. <u>3800</u> ppm				Total Depth	6184' Ft.	
Mud Pit Sample <u>.98</u> @ <u>72</u> ° F. <u>5000</u> ppm				Main Hole/Casing Size	8 3/4"	
Mud Pit Sample Filtrate <u>.82</u> @ <u>132</u> ° F. <u>3800</u> ppm				Drill Collar Length	608.77' I.D.	2.25"
Mud Weight <u>9.3</u> vis <u>3?</u> cp				Drill Pipe Length	5433' I.D.	3.340"
				Packer Depth(s)	6075' - 6082' Ft.	
				Depth Tester Valve	6057' Ft.	
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
		NONE		NONE	1/8"	.75"
Recovered		Feet of				
Recovered		Feet of				
Recovered		Feet of				
Recovered		Feet of				
Recovered		Feet of				
Remarks						
Tool opened with a weak blow - which increased to 2" in water in 20 minutes. Closed tool for a 60 minute first closed in pressure.						
Tool opened for a 120 minute second flow with a weak blow - which increased to 12" in water in 53 minutes. Remained at 12" in water for 47 minutes. No gas to the surface. Took a 120 minute second closed in pressure. Tools stuck - filled drill pipe and circulated out recovery..						
UTR = UNABLE TO READ...						
TEMPERATURE		Gauge No. 490	Gauge No. 198	Gauge No.	TIME	
		Depth: 6058' Ft.	Depth: 6180' Ft.	Depth: _____ Ft.		
		24 Hour Clock	12 Hour Clock	Hour Clock	Tool _____ A.M.	
Est. ° F.		Blanked Off NO	Blanked Off YES	Blanked Off	Opened 11:15 A.M.	
6179' @ Actual 132 ° F.		Pressures		Pressures		Opened _____ A.M.
		Field	Office	Field	Office	Bypass 16:35 P.M.
Initial Hydrostatic		NO READINGS		3126	3123	Reported _____
		ARE AVAILABLE.				Minutes _____
First Period	Flow Initial	GAUGE TORE		135	159	_____
	Flow Final	UP...		108	126	_____
	Closed in			378	351	20
Second Period	Flow Initial			122	131	_____
	Flow Final			122	118	120
	Closed in			944	957	120
Third Period	Flow Initial					_____
	Flow Final					_____
	Closed in					_____
Final Hydrostatic				3126	UTR	_____

Legal Location
Sec. - Twp. - Rng.

8 - 11S - 21E

Field Area
S. OURAY

County

UTAH

State

UTAH

HOPE UNIT

2-8

1

6082' - 6184'

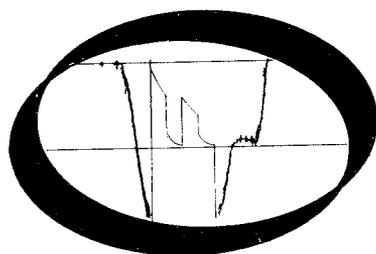
MAPCO, INCORPORATED

Lease Owner/Company Name

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.5"	.93'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4"	3.340"	54.33'	
Drill Collars	6.25"	2.25"	608.77'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	.87"	7.38'	6052'
Hydro-Spring Tester	5"	.75"	5.00'	6057'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.37"	4.05'	6058'
Hydraulic Jar	5"	1.75"	5.00'	
VR Safety Joint	5"	1.00"	2.65'	
Pressure Equalizing Crossover				
Packer Assembly	7.75"	1.53"	5.82'	6075'
Distributor ... 1600 P. S. I.	5"	1.68"	2.00'	
Packer Assembly	7.75"	1.53"	4.50'	6082'
Flush Joint Anchor	5.75"	4.75"	1914'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint	5.75"	1.50"	4.00'	
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6.25"	2.25"	63.46'	
Flush Joint Anchor	5.75"	4.75"	12.09'	
Blanked-Off B.T. Running Case	5.75"	2.50"	4.00'	6180'
Total Depth				6184'

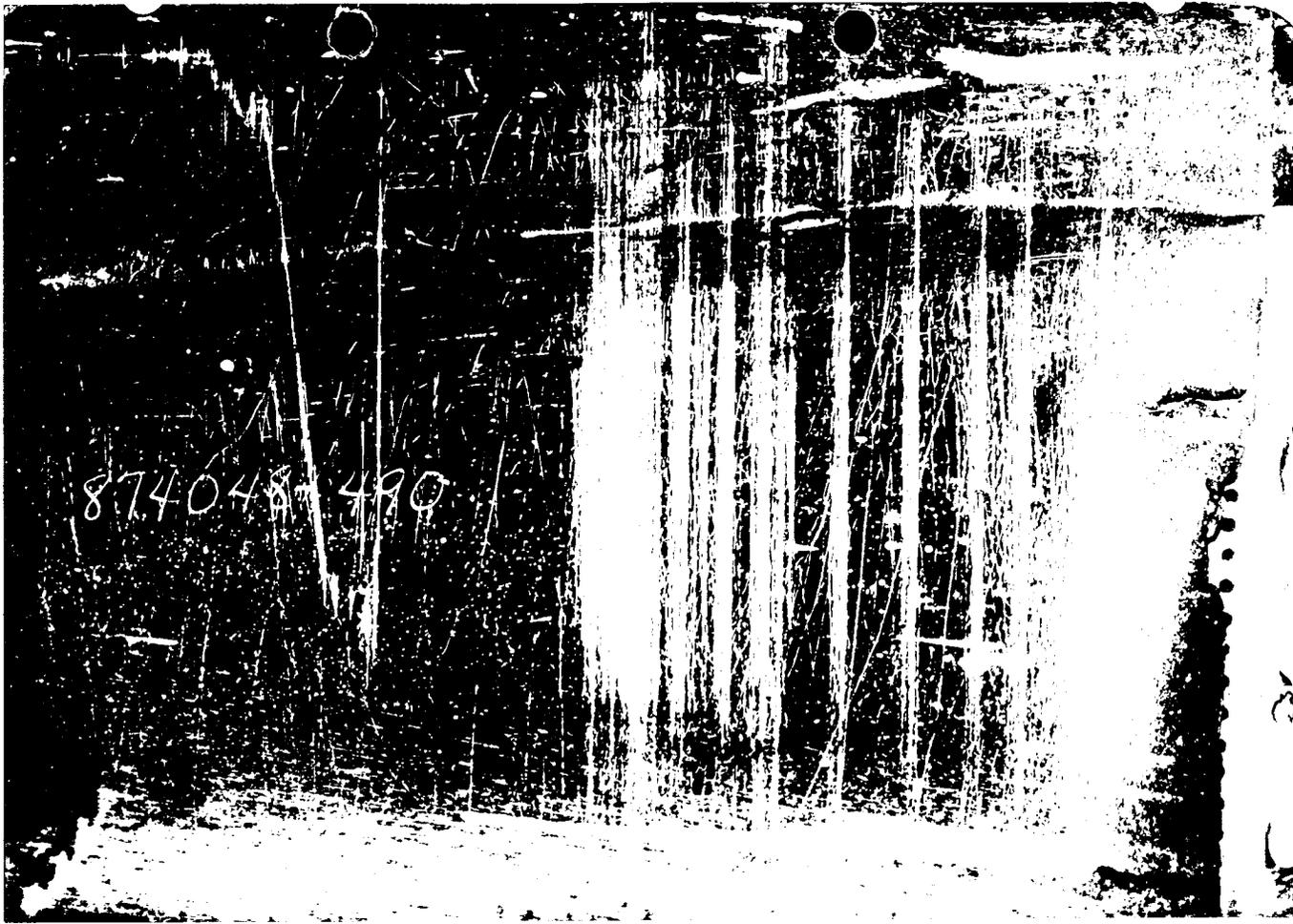
Formation Testing Service Report

67



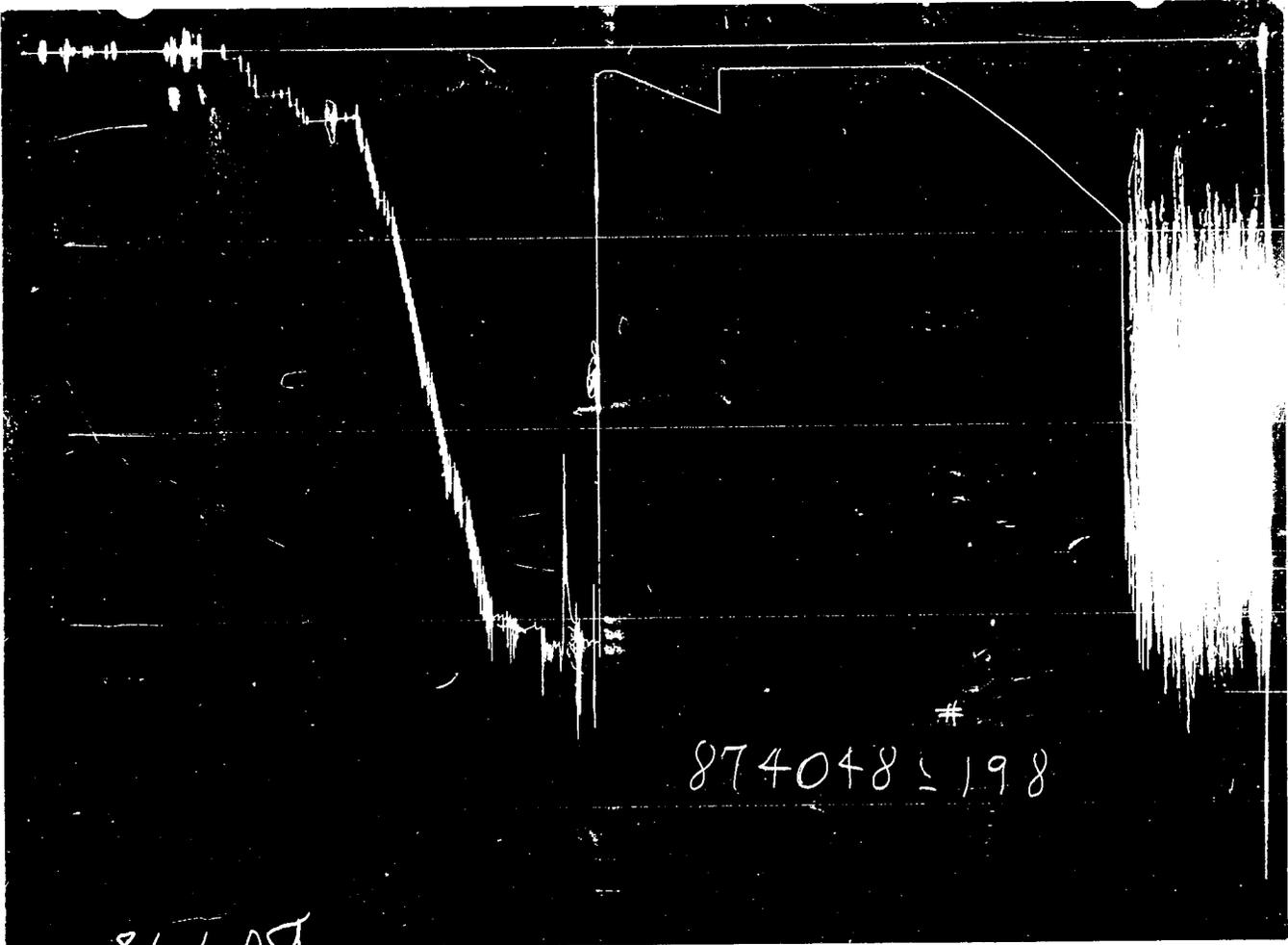
HALLIBURTON SERVICES

DUNCAN, OKLAHOMA



↑
PRESSURE

← TIME →



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

TEMPERATURE RECORDER CHART



10° each circle

OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF_4	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{or}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q_1	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	—
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF_4	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{ot}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q_1	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 19 74,

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102 Signed J. D. Holliman J. D. Holliman
Manager of Operations,
Phone 406/248-7406 Agent's title Northern District

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 8	11S	21E	2							<p>Drilled from 8600' to total depth, 9600'. Reached TD 12-9-74. Ran the following Schlumberger logs: BHC Sonic-GR -- 9601-2028 Dual LL -- 9604-2070 FDC-CNL -- 9608-2028 Ran 178 jts. 7" csg; set csg. at 6880'. Cemented with 780 sx; plugged down 12-12-74. <u>RELEASED RIG 8PM, 12-13-74.</u> Rigged down rotary tools and presently waiting on supplies and completion unit to complete well, 12-31-74</p>

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1975,

Agent's address Suite 320 Plaza West Company MAPCO Inc.

1537 Avenue D, Billings, Montana 59102 Signed Agnes N. Model

Phone 406/248-7406 Agent's title Geological Clerk & Secretary

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 8	11S	21E	2							Waiting on 5' liner and completion unit to complete well.

Hope 2-8

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;

no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-8345

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Hope Unit

8. FARM OR LEASE NAME

Federal (Hope Unit)

9. WELL NO.

2-8

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 8
T. 11 S., R. 21 E.

12. COUNTY OR PARISH 13. STATE

Uintah 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.)

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

MAPCO Inc.

3. ADDRESS OF OPERATOR

Suite 320 Plaza West
1537 Avenue D, Billings, Montana 59102

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

NE SW (1247' FSL & 1873' FWL)
Section 8, T. 11 S., R. 21 E.,
Uintah County, Utah

14. PERMIT NO.

43-047-30189

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

5459' G.L. - 5473' K.B.

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) **Perforate**

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) _____

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

Completion rig to move in February 6, 1975. Details of proposed work attached.

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

SIGNED

Agnes W. Model
(Mrs.) Agnes W. Model

TITLE

Geological Clerk and
Secretary

DATE January 31, 1975

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

20. Open circulating valve above RTTS and establish reverse circulation.
21. Release RTTS and trip in to retrievable bridge plug.
22. Circulate hole clean at top of bridge plug.
23. Repeat steps 14 through 21 for each of the following intervals:
 - (a) Set RTTS at 8300' and retrievable bridge plug at 8600'
 - (b) Set RTTS at 7860' and retrievable bridge plug at 8300'
 - (c) Set RTTS at 7550' and retrievable bridge plug at 7860'
 - (d) Set RTTS at 7100' and retrievable bridge plug at 7550'

NOTE: Number of balls in each interval break down test will vary depending on number of perforations in that interval. Frac details and procedure in Step 17 may be modified for subsequent intervals.

24. After testing top stimulated interval, install christmas tree and rig down completion rig.
25. Thoroughly clean location.

Prepared by Tommy F Barnes

Approved by J Holliman

Date Jan 31, 1975

13. Rig down perforators.
14. Pick up 5" retrievable bridge plug and 5" RTTS and run on 2-7/8" and 3-1/2" tubing. Set retrievable bridge plug at 9050' and RTTS at 8700'.
15. Rig up pump truck. Pump 5000 gallons of 2% KCl water down tubing to break down Mesaverde formation between 8700' and 9050'. After establishing injection rate, drop 2 balls every 200 gallons. Drop a total of 50 balls in attempt to ball off.
16. Attempt to flow well and establish flow rate after break down treatment.
17. Rig up Halliburton to frac interval 8700-9050'.* Two 500 bbl. tanks containing 32,000 gallons water and five 500 bbl. tanks containing 90,000 gallons condensate will be required for frac job. Frac with Halliburton Super Emulsifrac as follows:

20,000 gallons Super Emulsifrac pad
6,000 gallons " " with 1#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 2#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 3#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 4#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 4#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 4#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 4#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 4#/gal. to 8#/gal. 20-40 sand

Approximate rate and pressure will be 25 BPM at 7000 psi. While pumping last 6,000 gallons, increase sand concentration from 4 to 8#/gal. and decrease pump rate. Flush to top perf with condensate.

*Balls were used in break down treatment to establish communication. Do not use balls in frac job providing ball action during break down indicated communication was established.

18. Leave well shut in one hour, prior to flow test.
19. Flow well to clean up and establish flow rate from fractured interval.

12. Continued from Page 2 --

<u>BHC Sonic GR Depths</u>	<u>Correlation GR Shot Depths</u>	<u>BHC Sonic GR Depths</u>	<u>Correlation GR Shot Depths</u>	<u>BHC Sonic GR Depths</u>	<u>Correlation GR Shot Depths</u>
8263		7846		7514	
8256		7841		7503	
8250		7779		7493	
8243		7774		7485	
8209		7768		7477	
8203		7693		7453	
8196		7691		7450	
8109		7665		7350	
8104		7660		7344	
8067		7657		7338	
8062		7639		7323	
8005		7636		7321	
7994		7621		7298	
7987		7618		7288	
7905		7587		7248	
7899		7583		7168	
7892				7162	
				7155	
				7146	
				7139	

10. Run two blooie lines from the rig to a flare pit at least 150' from the rig. Connect one line to casinghead valve. Nipple up second line so that it may be connected to 3-1/2" tubing.
11. Wait a minimum of 72 hours after bumping plug on cement job before rigging up perforators.
12. Perforate the Mesaverde with two shots per foot using a casing jet gun as follows:

<u>BHC Sonic GR Depths</u>	<u>Correlation GR Shot Depths</u>	<u>BHC Sonic GR Depths</u>	<u>Correlation GR Shot Depths</u>
8987		8536	
8983		8534	
8980		8510	
8943		8506	
8941		8503	
8931		8488	
8928		8486	
8856		8432	
8851		8430	
8849		8391	
8842		8385	
8760		8380	
8758		8376	
8741			
8738			

Continued Page 3 --

MAPCO, HOPE UNIT NO. 2-8

NE SW SECTION 8, T. 11 S., R. 21 E., UINTAH COUNTY, UTAH

Present Well Condition:

1. 9-5/8", 36#, K-55, STC set at 2022'.
2. 8-3/4" hole to 6826'; then 7-7/8" hole to T.D. 9600'.
3. 7", 23#, K-55, LTC set at 6880'.
4. Open hole contains 9.7 ppg salt water.
5. Mesaverde top at 6838'.

Proposed Completion Procedure:

1. Move in and rig up completion rig.
2. Trip in with 6-1/8" bit on 3-1/2" tubing. Clean out open hole interval to T.D.
3. Condition mud and hole for running 5" liner with gelled salt water having maximum density of 9.7 ppg.
4. Run 3000' of 5", 18#, N-80, Atlas Bradford FL-4S casing with 5" x 7" TIW liner hanger on 3-1/2" tubing. Run TIW fillup set shoe and landing collar on bottom joint of 5" casing. Assuming 5" casing landed at 9590', run special clearance centralizers at the following depths:

9580', 9550', 9470', 9020', 8840', 8700', 8560', 8440',
8370', 8280', 7850', 7500', 7150', 6900', 6800'.
5. Rig up Halliburton to cement 5" liner. Pump 500 gallons of chemical wash, 50 sacks of 12.4 ppg 65-35 Pozmix containing 10% salt, 0.75% CFR-2, and 1285 sacks of 14.4 ppg 50-50 Pozmix containing 10% salt, 0.75% CFR-2. Reciprocate 5" casing while cementing.
6. After bumping plug on cement job, hang 5" liner. Release TIW setting tool and pull 15 stands out of hole.
7. Trip out of hole. Trip in with 6-1/4" bit or mill and casing scraper for 7", 23# casing (ID 6.366", DD 6.241").
8. After 24 hours WOC, drill out cement in 7" casing and thoroughly scrape 7" casing to top of 5" liner. Pressure test casing to 2000 psi. Trip out of hole.
9. Trip in with 4-1/8" bit or mill on 2-7/8" and 3-1/2" tubing. Clean out inside 5" liner to PBD. Circulate hole clean. Displace salt water in hole with 2% KCl water. Trip out. Swab fluid level down to approximately 1000'.

Form approved.
Budget Bureau No. 42-R356.5. PI

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

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit

2

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 1975,

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102 Signed Agnes N. Model
Phone 406/248-7406 Agent's title Geological Clerk & Secretary

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 8	11S	21E	2							2-1 thru 9-75: Waiting on 5" liner and completion unit to complete well. 2-10 thru 2-12: Moving in and rigging up Colorado Well Ser. Rig #77. 2-13 thru 2-27: See attached sheets for detailed daily activity.

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

- 2-25-75 T.D. 9,539' PBD; rigging up to perforate. Drilled cement 15' at liner lap. Tripped in hole and tagged cement at 9,490'. Laid down power tongs and picked up power swivel. Drilled cement from 9,490' to 9,539'. Circulated and conditioned hole. Cleaned mud pits. Displaced hole with 2% KCl water. Laid down swivel and picked up power tongs. Tripped out to perforate. WO perforations.
- 2-26-75 T.D. 9,539' PBD; waited on perforators. Rigged up GO International. Ran Gamma Ray, bond log CCL from 9,569'-6,550'. Perforated the following depths with 2 shots per foot using a casing jetgun: 8,987', 8,983', 8,980', 8,943', 8,941', 8,931', 8,928', 8,856', 8,851', 8,849', 8,842', 8,760', 8,758', 8,741', 8,738'. Rigged down GO International. Waited on packer and bridge plug for 2½ hours. Tripped in hole with retrievable bridge plug and RTTS Packer. Set retrievable bridge plug at 9,090' and RTTS at 8,686'. Rigged up frac manifold. Waited on daylight for 3½ hours.
- 2-27-75 T.D. 9,600'; rigged up Halliburton. Pressure tested lines to 7,000 psi. Pressured up annulus to 2,000 psi and held throughout job. Pumped 510 gallons, 2% KCl water down 3½" and 2-7/8" tubing with RTTS set at 8,684' and retrievable bridge plug at 9,090' and established rate of 6 BPM at 4,500 psi. Pumped 5,000 gallons of 2% KCl water and 50 - 7/8" RCN balls. Dropped 1 ball/100 gallons. Pumped first 2,730 gallons at 8.5 BPM and 4,200 psi. Balls reached perfs. Pumped remaining 2,370 gallons at 8 BPM and 4,400 psi. Flushed with 2% KCl water. Had some ball action and balled off after pumping 1,380 gallons of flush with 8,500 psi. After 5 minutes, 8,300 psi SITP. After 10 minutes, 8,200 psi. Rigged down Halliburton. Shut in tubing with 3,000 psi. Rigged up to flow to pit. Opened well to pit at 2:30 PM, 2-26-75. Well flowed back 2" stream of KCl water shooting out 6' past end of flow line. By 3 PM, flowing KCl water at approximately 30 BPH. By 4 PM, rate was approximately 12 BPH. At approximately 5 PM, well began making some gas with the KCl water. Well headed up with gas and KCl water until it died at 3 AM, 2-27-75. Started kicking at 6:00 AM.
- 2-28-75 T.D. 9,600'; flowing well on 6/64" positive bean choke. Made 8 swab runs, first swab run from 800' with fluid level at surface. On 8th run, swabbed to 4,500' with fluid level at 3,900'. Rigged down from swabbing. Rigged up Halliburton and pressure tested lines to 10,000 psi. Halliburton pumped 20,000 gallons Super Emulsifrac pad (2/3 condensate-naptha blend, 1/3 KCl water). Pumped 6,000 gallons Super Emulsifrac containing 20-40 sand followed by 4,000 gallons of condensate-naptha blend eight times. Sand concentration was 1#/gallon--first 6,000 gallons, 2#/gallon--second, 3#/gallon--third, and 4#/gallon on 4th through 8th, 6,000 gallons. Then pumped 6,000 gallons Super Emulsifrac with 20-40 sand concentration from 4#/gallon to 8#/gallon. Flushed to top perf with 3,100 gallons of condensate-naptha blend. Frac'd with average rate of 13 BPM and average pressure of 8,600 psi. ISIP--3,900 psi, 5 minutes--3,600 psi, 10 minutes--
- 2-28-75 3,400 psi, 15 minutes--3,200 psi. Completed job at 3:30 PM, 2-27-75. (con't Rigged down Halliburton. Rigged up to flow well. SITP at 5 PM, 2-27-75, from was 3,800 psi. Opened well to frac tank at 5 PM, 2-27-75 on 10/64" page 15) choke. Well flowed approximately 500 barrels fluid in 1 hour. Initial FTP, 3,200 psi and decreased to 750 psi in approximately 20 minutes. Shut in well. Installed a 2nd 4", 5,000 psi master valve, 2", 5,000 psi wing valve, and 6/64" ceramic positive bean choke. Flowed well from 10:30 PM, 2-27-75, to 6:00 AM, 2-28-75, on 6/64" choke with 3,700 psi FTP and made 84 barrels fluid, from 11:30 PM to 6:00 AM (6½ hours, 12.9 BPH). No gauge from 10:30 PM to 11:30 PM. Total frac fluid pumped was 106,000 gallons with 190,000# of 20-40 sand.

MAPCO INC., HOPE UNIT NO. 2-8NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH

- 2-18-75 T.D. 9,600'; tripping in with 5" liner. Tripped out and laid down 86 joints of 3½" DP. Strapped out 105 stands of 3½" DP and laid down DC's. SLM, 9,598'. No correction. Rigged up casing crew and installed 5" pipe rams in BOP. Ran 81 joints, 5", 18#, N-80, FL4S Atlas Bradford with TIW float shoes and landing collar on bottom joints. Ran 13 Halliburton, 5" slim hole centralizers. Picked up and ran TIW 7" x 5" liner hanger with packer and tie back sleeve. Waited on casing crew to repair tongs for 3 hours. Tripped in with 5" liner on 3½" tubing.
- 2-19-75 T.D. 9,600'; ran 13 Halliburton 5" slim hole centralizers as follows: 10' above shoe, ½ way up on second joint, and at bottom of 4, 16, 21, 25, 30, 35, 48, 57, 66, 72, 77 joints above shoe. Completed trip in with 5" liner on 3½" tubing. Rigged up Halliburton. Circulated hole. Halliburton pumped 10 barrels chemical flush, 50 sacks 65-35 Pozmix, 975 sacks 50-50 Pozmix. Displaced cement with 10 barrels of water and 94.5 barrels salt water mud. Bumped plug at 11:22 AM, 2-18-75, with 3,000 psi. Released pressure. Plug held. Reciprocated pipe 10-15' while cementing full returns throughout job. Hung 5" liner after cementing at 9,586' KB (KB to GL ref. 11') with liner top at 6,557' and set liner hanger packer. Tripped out of hole with 3½" tubing and TIW liner hanger setting tool. WOC for 13½ hours. Five inch liner set and cemented 12' above TD of 9,598' KB. (Colorado Well Service Rig #77, KB to GL measurement 11').
- 2-20-75 T.D. 9,600'; WOC.
- 2-21-75 T.D. 9,600'; drilling cement at 5,543'. W.O.B. 3,000#. BHA: bit, casing scraper, and 2 X-over subs. Bit #18, 6-1/8" V-2 STC. WOC for 4 hours. Tripped in. Tagged cement stringers at 4,903'. 1,654' of cement above liner. Rigged up drilling equipment. Replaced salt water with clean water. Laid down drilling pipe. Drilling cement from 4,903' to 5,543', good, hard cement.
- 2-22-75 T.D. 9,600'; drilling cement at 6,243'. BHA: bit, casing scraper, 2 X-over subs. Bit #18, 6-1/8" V-2 STC. Drilled cement from 5,543' to 6,243'. Laid down 3½" tubing out of derrick.
- 2-23-75 T.D. 9,600'; tripped out of hole with 3½" tubing. Bit #18, 6-1/8" V-2 STC. Laid down 3½" tubing out of derrick. Packed swivel for 2 hours. Drilled cement from 6,243' to 6,557'--top of liner.
- 2-24-75 T.D. 9,600'; drilling cement. Tested casing to 2,000 psi. Held okay. Tripped out. Rigged up power swivel and tubing equipment. Ran 97 joints, 2-7/8" tubing at 3,129'. Tripped in with 3½" pipe. Drilled cement at liner top, made 12'.

MAPCO INC., HOPE UNIT NO. 2-8

- 2-13-75 T.D. 9,600'; picking up DC's. Rigged up flow line and drilling nipple. Nippled up BOP and choke manifold. Pressure tested BOP to 800 psi. Pressure held. Picking up 4-3/4" DC's.
- 2-14-75 T.D. 9,600'; testing piperams and manifold. BHA: Bit, 6-4 1/2" DC's, and 2 x-over subs. Bit #17, 6-1/8" D-2 STC. Picked up 197 joints 3 1/2" tubing. Tagged cement at 6,467'. Worked on pump and laid down kelley. Takes too long to stand back. Picked up power swivel and repaired power swivel. Laid blooie line and hooked up manifold.
- 2-15-75 T.D. 9,600'; drilling cement at 6,847'. 5 1/2 x 18 pump, 600# pump. BHA: 6-1/8" bit, 6 - 4 1/2" DC's. Mud Wt. 9.8. Bit #18, 6-1/8" V-2 STC. Pressure tested 3 1/2" pipe rams and choke manifold to 1,400 psi. Ran one stand 3 1/2" tubing in hole. Broke circulation with 1,400 psi. Drilled cement inside 7" casing from 6,467' to 6,847'.
- 2-16-75 T.D. 9,600'; washing and drilling fill at 9,315'. 5 1/2 x 18 pump, 28-48 SPM, 200-1,200# pump. BHA: 6-1/8" bit, 6 4 1/2" DC's, 2 X-over subs. Mud Wt. 9.7, funnel vis. 35, plastic vis. 10, yield 8, gel 3/6, W.L. 9, F.C. 2/32, pH. 9. Bit #18, 6-1/8" V-2 STC. Drilled cement from 6,847' to 6,890'. Drilling 7" shoe at 6,890'. Well blew 9.7 ppm mud approximately 25' above table. Rigged up lines to reserve pit and mud tanks from choke manifold. Circulated and conditioned gas cut mud for 7 1/2 hours. Mud initially gas cut from 9.7 ppg to 8.5 ppg. Circulated gas out through choke manifold with oil on mud pits. After gas decreased, circulation over shale shaker (bit at 6,970'±) until water loss lowered to 9 cc/30 minutes. Samples on shaker were shale and LCM. Laid down power swivel. Ran 28 joints, 3 1/2" tubing to 7,885'±. Circulated over shale shaker. Mud became gas cut, 9.7 ppg to 8.5 ppg. Circulated gas cut mud and oil film through choke manifold to mud tank. Ran in hole with 45 joints, 3 1/2" tubing. Hit fill at 9,305'±. Washed and drilled hard fill from 9,305'± to 9,315'±.
- 2-17-75 T.D. 9,600'; tripping out to pick up 5" liner. 5 1/2 x 18 pump, 20-35 SPM, 200-1,000# pump. Mud Wt. 9.8, funnel vis. 35, plastic vis. 7, yield 3, W.L. 6.4, F.C. 2/32, pH. 9.5, 90,000 ppm chloride. Bit #18, 6-1/8" V-2 STC. Washed and reamed hard fill, 9,315'-9,330'. Soft fill, 9,330'-40'. Circulated gas kick to mud pits on choke mud cut from 9.8 to 8.7 with slight oil scum on pits. Washing and drilling fil from 9,340'-9,598'. Circulated and conditioned. Checked for flow (no flow). Circulated and conditioned. Short trip, 20 stands (no drag, no fill). Circulated and conditioned samples, mostly shale. Laid down swivel and rigged up to trip out. Tripping out laying down 3 1/2" liner.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 19 75, MAPCO, Hope Unit No. 2-8

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102 Signed Agnes W. Model

Phone 406/248-7406 Agent's title Geological Clerk & Secretary

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 8	11S	21E	2							See attached sheets for daily activity during month. Confidential

NOTE.—There were no runs or sales of oil; no cu. ft. of gas sold;
no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

DAILY PRODUCTION REPORT

PAGE 30

Confidential

MAPCO INC. HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & M

UINTAH COUNTY, UTAH

- 4-19-75 T.D. 9,539' PBD; ran in hole with Sun Oil Field wireline. Wireline TD measurement was 9,182' and fluid level was at 1,300'. Flowed well to burn pit on 48/64" choke for 23 hours with 150-200 psi FTP. Well headed up with water, gas, and trace of oil throughout the day. Well made approximately 50-60 barrels of water.
- 4-20-75 T.D. 9,539' PBD; flowed well to burn pit on 48/64" choke for 24 hours with 40 psi FTP. Well headed up with water, gas, and trace of oil throughout the day. Well made approximately 70-80 barrels of water.
- 4-21-75 T.D. 9,539' PBD; flowed well to burn pit on 48/64" choke for 23 hours with 100 psi FTP. Well headed up with water, gas, and trace of oil throughout the day. Well made approximately 90 barrels of water. Shut well in for one hour. Pressure built up to 300 psi during hour well was shut in.
- 4-22-75 T.D. 9,539' PBD; intermitted well flowing 1½ hours, shut in 1½ hours. During shut in, pressured up from 60 psi to 450 psi. Opened well to burn pit making gas followed by a slug of water, followed by gas. Total recovery 50 to 60 barrels of water. Flowed total of 12 hours.
- 4-23-75 T.D. 9,539' PBD; alternated flowing well to pit for 1½ hour period and shutting well in for 1½ hour period. During flow periods, FTP would decrease to 50 psi. Well would flow gas initially during flow periods, then make small amount of condensate and yellow oil followed by a slug of water. During shut in periods, pressure would increase to 450 psi. Attempted to flow well through test separator between 4:30 PM and 6:30 PM, 4-22-75, but well would load up with water. Well made 40-50 barrels of water.
- 4-24-75 T.D. 9,539' PBD; flowed well to pit making gas, water, and small amount of condensate and yellow oil through 1¼" for 6 hours. Shut well in for one hour and built pressure to 220 psi. Flowed well to burn pit making gas, water, and small amount of condensate and yellow oil for 6 hours. FTP decreased to 40 psi 20 minutes after opening well to pit. Shut well in for one hour and pressure built to 220 psi. Flowed well to burn pit for 7 hours as above. Shut well in for one hour and pressure built to 200 psi. Flowed well to pit for 2 hours as above. Well made approximately 30-40 barrels of water. Well flowed a total of 21 hours and was shut in a total of 3 hours.

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DAILY PRODUCTION REPORTMAPCO INC. HOPE UNIT NO. 2-8NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH

4-17-75 T.D. 9,539' PBD; flowed well through test separator on 20/64" choke for 7 hours with FTP 200 psi to 160 psi and held 110 psi back pressure on separator. Well made 15 barrels oil, 7± barrels water and averaged 363,630 cubic feet of gas measured through 1" orifice. Well loaded up while flowing through separator. Flowed well to burn pit on 48/64" choke for 17 hours with 100-250 psi FTP. First 15 minutes to pit well made mist, then began flowing ¼" to ½" stream of water out bottom of pipe in addition to heavy mist with gas. Well continually headed up while flowing to pit. While flowing to pit, flare started approximately 25' from end of flow line. Well flowed approximately 170 barrels water to pit during 17 hours.

CORRECTION TO THE REPORT OF 4-14-75: Well made 63 barrels of condensate instead of 6 barrels.

CORRECTION TO THE REPORT OF 4-16-75: Flowed well to pit on 48/64" choke instead of a 20/64" choke for 1 hour unloading water.

4-18-75 T.D. 9,539' PBD; flowed well 6 hours to burn pit. Flowed well 18 hours on 20/64" choke through separator. Produced 10 barrels condensate and 15 barrels water as follows:

<u>Time</u>	<u>Treater, psi</u>	<u>Tubing, psi</u>	<u>MCF/D Rate</u>
12:00 noon	95	120	125
1:00 PM	95	120	225
2:00 PM	95	120	277
3:00 PM	95	180	292
4:00 PM	100	160	306
5:00 PM	100	150	293
6:00 PM	100	140	226
7:00 PM	100	180	253
8:00 PM	100	200	253
10:00 PM	100	190	253
4:00 AM	100	210	306
5:00 AM	100	205	282
6:00 AM	100	200	292

Turned well to burn pit for 6 hours.

Confidential

DAILY DRILLING REPORT

Confidential

PAGE 28

MAPCO INC. HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & M

UINTAH COUNTY, UTAH

- 4-11-75 T.D. 9,539' PBD; flowed well through test separator for 21½ hours on 20/64" choke with 290 psi FTP. Well was shut in for 1½ hours for repairs on test separator. Separator was full of sand. SITP for 1½ hours was 600 psi. Well made 80 barrels oil, 95 barrels water, and averaged 1,976,352 cubic feet of gas. Held 180-200 psi back pressure on separator.
- 4-12-75 T.D. 9,539' PBD; flowed well through separator on 20/64" choke for 24 hours with 300 psi FTP and 190 psi back pressure on separator. Well made 47 barrels condensate, 96 barrels water, and averaged 2,061,949 cubic feet of gas as measured through 2¼" orifice.
- 4-13-75 T.D. 9,539' PBD; flowed well through separator on 20/64" choke for 24 hours. Well made 58 barrels condensate, 72 barrels water, and averaged 2,119,519 cubic feet of gas as measured through 2¼" orifice.
- 4-14-75 T.D. 9,539' PBD; flowed well through separator on 20/64" choke for 24 hours with 280 psi FTP. Well made 63 barrels condensate, 48 barrels water, and averaged 323,748 cubic feet of gas as measured through 1" orifice. Gas measurement is only an estimate. Barton meter may not be working properly or meter run may be plugged or damaged by frac sand.
- 4-15-75 T.D. 9,539' PBD; flowed well through separator on 20/64" choke for 7 hours. Well made 18 barrels condensate and 25 barrels water. Separator loaded up with water. Opened up separator to drain water. Well averaged 369,886 cubic feet of gas prior to opening up separator and 581,612 cubic feet of gas after. Worked on separator 1 hour. Flowed well to burn pit on 3/4" choke for 16 hours. Well unloaded approximately 80 barrels water and had gas flare from 5' to 30' during 16 hours to pit. The reduction in gas rate for the last two days was evidently caused by well loading up with water.
- 4-16-75 T.D. 9,539' PBD; flowed well to pit on 48/64" choke for 1 hour unloading water. Flowed well through test separator for 23 hours on 20/64" choke with FTP 90 psi to 290 psi. Held 100 psi back pressure on separator. Well made 31 barrels condensate. Separator was dumping water, but meter was not working. Estimated that well made 20 barrels water. Well averaged approximately 346 MCFD as measured through a 1" orifice.

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MAPCO INC. HOPE UNIT NO. 2-8

Confidential

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH

- 4-4-75 T.D. 9,539' PBD; tearing down flowing well. Rigged up Halliburton and pumped at 3,500 psi then back flowed. Repeated total of 4 times while working stuck tools by hand. Tools came free. Recovered flowed well, well plugged off. Fished for plug; would not come free. Pressured up to 3,000 psi with Halliburton then bled back to 300 psi. Repeated total 3 times when plug pulled free. Retrieved plug. Flowed well to burn pit to clean up (13½ hours) making mostly water on 45/64" choke. Opened well at 4:30 PM, 4-3-75, with SITP at 1,500 psi, FTP at 1,200 psi. FTP decreased to 200 psi in approximately 11 hours and remained steady except for gas heading.
- 4-5-75 T.D. 9,539' PBD; well shut in, 2,200 psi. Flowed well to pit for 11½ hours on 48/64" choke. FTP decreased from 1,500 psi to 200 psi. Estimated rate of 16 to 20 barrels water per hour. Last 3 hours of flow period, well made water mist. Shut in well for 12½ hours.
- 4-6-75 T.D. 9,539' PBD; well shut in for 24 hours. Changed flow lines. Tested and installed Axelson valve on well head. Well head pressure, 2,200 psi.
- 4-7-75 T.D. 9,539' PBD; flowing well. SITP, 2,450 psi. Flowed well through treater for one hour on 10/64" choke. Well did not make any fluid and averaged approximately 620 MCFD. Repaired fluid dump system on treater. Flowed well through treater for 12 hours on a 10/64" choke and for 9 hours on a 14/64" choke. Changed from a 10/64" to 14/64" choke at 9:00 PM, 4-6-75. FTP on 10/64" choke was 1,150 psi to 1,100 psi. FTP on 14/64" choke decreased from 800 psi initially to 400 psi at 6 AM, 4-7-75. Well made 282 barrels fluid. Well was making 15.5 BPH fluid and 853 MCFD gas at 6 AM, 4-7-75.
- 4-8-75 T.D. 9,539' PBD; flowed 646 barrels condensate in 23½ hours and averaged approximately 301 MCF gas. Flowed through 16/64" choke with 400 psi FTP. Held 180 psi back pressure on separator.
- 4-9-75 T.D. 9,539' PBD; flowed well through test separator for 24 hours. Well was on 16/64" choke for 8 hours and on 20/64" choke for 16 hours. FTP varied from 400 to 310 psi. Well made 518 barrels fluid and averaged 791,775 cubic feet of gas for the 24 hours.
- 4-10-75 T.D. 9,539' PBD; flowed well through test separator for 24 hours on a 20/64" choke with 300 psi FTP and held 200 psi back pressure on separator. Well made 232 barrels of fluid and averaged 1,903,338 cubic feet of gas through a 2¼" orifice.

Confidential

DAILY DRILLING REPORT

PAGE 26

MAPCO INC. HOPE UNIT NO. 2-8NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH

- 3-30-75 T.D. 9,539'; rigging engine down without mechanic. Installed BOPE. Rigged up to run 2-7/8" tubing. Had to change radiators on rig engine. Changed valves on well head. Was 8 $\frac{1}{4}$ hours running 125 joints, 2-7/8", N-80, 6.5#/ft., 8 round EUE tubing. Shut down waiting on mechanic for cracked rig engine - block or head.
- 3-31-75 T.D. 9,539'; waiting on parts for engine. Waited on rig engine parts.
- 4-1-75 T.D. 9,539'; shut down for 24 hours for rig repair.
- 4-2-75 T.D. 9,539'; circulating, building volume. Picked up 216 joints of 2-7/8", 6.5#, N-80, 8 round tubing. Circulated to build volume and lower weight on CaCl₂ water to 10#/gallon. Rig should be released this PM.
- 4-3-75 T.D. 9,539 PBD; working stuck wireline tools in lubricator. Circulated 10.8 ppg CaCl₂ water decreasing density to 10.0 ppg. Mixed 17.5 gallons Tretolite inhibitor and 13# O₂ scavenger and displaced in 277 barrels 10.0 ppg CaCl₂ water. Spaced out 215 joints of 2-7/8", 6.5#, N-80, EUE tubing with 2 - 12' pup joints. Landed 2-7/8" tubing at 6,546' with 10,000# set down weight. Rigged down BOP and installed 3,000 psi OCT christmas tree. Pressure tested 2-7/8" tubing with 6,000 psi for 30 minutes and 7" casing with 2,000 psi for 30 minutes. Both held. Halliburton pressure tested. Rigged up GO International. Ran overshot to retrieve moveable mandrel with no success. Ran hydraulic bailer twice. Misrun the first time and recovered water the second time. Ran in with overshot and recovered moveable mandrel. Ran magnet with no recovery. Ran pulling tool twice to recover plug with no success. Ran sand pump twice with water recovery. Ran pulling tool 3 times with no recovery. Ran pulling tool, latched onto plug and pulled uphole 8'. Stuck plug and could not move up or down. Worked stuck plug and finally jarred plug down 8' into N0-GO nipple. Sheared off of plug and pulled out of hole. Did not get completely out of hole. Stuck wireline tools in lubricator at 5 AM, 4-3-75. Tools in lubricator are pulling tool, mechanical jars, hydraulic jars, and 2 sinker bars. Cannot close valve in christmas tree because of wireline tools. Working stuck tools in lubricator. Do not have any jarring action. Have 1,500 psi on tubing.

5

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5. PI

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit J

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1975,

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102 Signed Agnes N. Model
Phone 406/248-7406 Agent's title Geological Clerk & Secretary

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 8	11S	21E	2							See attached sheets for daily activity during month.

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

DAILY DRILLING REPORT

PAGE 25

MAPCO INC. HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & M

UINTAH COUNTY, UTAH

- 3-25-75 T.D. 9,539'; going in hole with plug plucker. Flowed well through test separator on 32/64" choke for 8 hours. Well made 38 barrels frac fluid and averaged 88 MCFD. Total fluid recovery from interval 7,288-7,846' was 1,752 barrels. Shut well in. Released RTTS at 6,637' and reverse circulated with 10 ppg CaCl₂ water. Lost approximately 200 barrels. Mixed 200 barrels of 9.6 ppg CaCl₂ water and reverse circulated hole. Tripped out with RTTS. Tripping in with bridge plug retrieving tool.
- 3-26-75 T.D. 9,539'; killing well. Completed trip in hole with BP retrieving tool. Tagged fill at 7,760'. Reverse circulated out 105' of sand to BP. Latched onto BP and released same. Circulated and mixed 9.6 ppg CaCl₂ water, returns were 9.4 ppg. Increased CaCl₂ concentration until density was 10.4 ppg going in hole. Began losing fluid. Decreased CaCl₂ concentration until density was 10.1 ppg. Well would not stay dead with 10.1 ppg CaCl₂ water. Began to increase CaCl₂ concentration. Have density of 10.2 ppg going in and 10.1 ppg coming out.
- 3-27-75 T.D. 9,539'; circulating and building water. Mixed CaCl₂ water to a density of 10.3 ppg. Tripped in hole from 7,865' to fill at 9,174'. Bottom perf is at 8,987'. Circulated 10.3 ppg CaCl₂ water. Mixed and waited on CaCl₂ for 9 hours. Mixed CaCl₂ water to a density of 10.4 ppg. Circulated 10.4 ppg CaCl₂ water with well kicking going through choke. Circulated and raised density to 10.5 - 10.6 ppg with well still kicking.
- 3-28-75 T.D. 9,539' PBD; tripping in hole with tubing. Killed well with 80-100 barrels slug of 10.8#/gallon CaCl₂ water pumped down with 10.6#/gallon water, pumping 8½ hours. POOH. Rigged up G0 International and ran Baker Retrieve-D production packer on wireline. Set packer with top at 6,551'. Tail pipe below packer: 1-12' pup, 1 - F Nipple, 1 - 12' pup, 1 - F Nipple, 1 - no-go ring. Rigged down G0 International. Started in hole to lay down working string of 3½" tubing when gas pocket kicked. Flowed gas pocket out. Continued trip in.
- 3-29-75 T.D. 9,539'; nipping up well head. Finished trip in. Rigged up lay-down machine. Total 8½ hours laying down 3½" tubing. Ran 2-7/8" tubing. Total of 2½ hours laying down 2-7/8" tubing. Rigged down lay-down machine and power tongs. Nipped down BOPE, nipped up well head.

MAPCO INC. HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & M

UINTAH COUNTY, UTAH

3-21-75 Flushed to top perf with condensate, ending job. Additives used:
 (Cont. SEM - 5 - 8 gallon/1,000 (surfactant), WG - 6 - 50#/1,000 (gelling
 from agent), and CW - 1 - 10#/1,000 (PH buffer). Maximum pressure, 9,000
 page 23) psi. Average pressure, 8,500 psi. Average rate - 16½ BPM. Max-
 imum - 22½ BPM. No apparent ball action from first set of balls,
 second set of balls indicated 1,200 psi increase. ISIP - 3,800 psi,
 5 minutes - 3,750 psi, 10 minutes - 3,700 psi, 15 minutes - 3,700
 psi. Load 198,150 gallons and breakdown 19,150 gallons less flow
 back.

6:30 - 7:30	6/64" choke	12.45 bbls.	3,450 FTP
7:30 - 8:30	6/64" choke	18.26 bbls.	3,400 FTP
8:30 - 9:30	6/64" choke	17.43 bbls.	3,400 FTP
9:30 - 10:30	6/64" choke	17.43 bbls.	3,400 FTP
10:30 - 11:30	6/64" choke	18.60 bbls.	3,400 FTP
11:30 - 12:30	6/64" choke	26.56 bbls.	3,200 FTP
12:30 - 1:30	10/64" choke	56.44 bbls.	3,150 FTP
1:30 - 2:30	10/64" choke	69.72 bbls.	3,100 FTP
2:30 - 3:30	10/64" choke	119.52 bbls.	3,100 FTP
3:30 - 4:30	10/64" choke	43.00 bbls.	3,000 FTP
4:30 - 5:30	10/64" choke	51.00 bbls.	2,900 FTP
5:30 - 6:00	10/64" choke	26.00 bbls.	2,850 FTP

Made total recovery of 460 barrels frac fluid, and no gas.

3-22-75 T.D. 9,600'; flowing well. Flowed well to frac tanks for 24 hours on a 10/64" choke with FTP varying from 2,850 psi to 400 psi. Recovered 645 barrels of frac fluid during past 24 hours. Total frac fluid recovery from interval 7,288' to 7,846' was 1,143 barrels.

CORRECTION TO THE REPORT OF 3-21-75: Total frac fluid recovered was 498 barrels not 460 barrels as reported.

3-23-75 T.D. 9,600'; flowing well to tanks. Flowed well to frac tanks for 1 hour on a 10/64" choke with 400 psi FTP and 23 hours on a 32/64" choke with FTP from 200 to 100 psi. Recovered 403 barrels of frac fluid during past 24 hours. Total recovery from interval 7,288'-7,846' was 1,546 barrels.

3-24-75 T.D. 9,600'; flowing well. Flowed well to frac tanks for 14 hours on a 32/64" choke with 100 to 150 psi FTP. Began flowing well through test separator at 2 PM, 3-23-75, on a 32/64" choke with FTP 150 to 175 psi. At 2 PM, 1975 gas was averaging 175 MCFD. At 6 AM, 1975 gas was averaging 88 MCFD. Recovered 168 barrels of frac fluid past 24 hours. Total recovery from interval 7,288'-7,846' was 1,714 barrels.

MAPCO INC. HOPE UNIT NO. 2-8NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH

- 3-19-75 T.D. 9,600'; rigging up G0 International. Attempted to pressure test retrievable bridge plug. Would not hole pressure. Tripped out to change out retrievable bridge plug. Picked up new retrievable bridge plug. Tripped in with retrievable bridge plug and set it at 7,870'. Pressure tested retrievable bridge plug to 1,500 psi for 20 minutes. Tripped out to perforate. Waiting on daylight to perforate.
- 3-20-75 T.D. 9,600'; well open to pit. Completed rigging up G0 International to perforate. Perforated the following BHC-Sonic-GR depths with 2 shots/ft. using 14 gram Harrison jets in 3-3/8" hollow steel casing gun: 7,846', 7,842', 7,779', 7,774', 7,770', 7,693', 7,690', 7,665', 7,658', 7,639', 7,636', 7,621', 7,618', 7,587', 7,583', 7,514', 7,505', 7,492', 7,477', 7,453', 7,346', 7,340', 7,323', 7,321', 7,298', 7,288'. Rigged down G0 International. Picked up RTTS and started tripping in. Well started kicking after tripping in 17 stands. Rigged up Otis. Ran and set XX plug with plug adapter in bottom of tubing on wireline. Completed trip in hole. Installed frac head. Set RTTS at 6,637'. Otis pulled XX plug and adapter. Opened well to pit. Well dead.
- 3-21-75 T.D. 9,600'; rigged up Halliburton to break down. Broke down formation with 2% KCl water using 80 - 7/8" RCP, 1.4 sp. gr. balls. Maximum pressure, 9,200 psi. Average pressure, 8,000 psi. Average rate - 9.9 BPM, maximum - 14 BPM, low - 7 BPM. ISIP - 2,700 psi, 5 minutes - 2,600 psi, 10 minutes - 2,600 psi, 15 minutes - 2,600 psi. Gelled water for frac job. Fracture treated in 3 stages with each stage as follows:

12,000 gallon pad
 6,000 gallon Super "E" containing 1#/gallon 20-40 sand
 4,000 gallon condensate
 6,000 gallon Super "E" containing 2#/gallon 20-40 sand
 4,000 gallon condensate
 6,000 gallon Super "E" containing 3#/gallon 20-40 sand
 4,000 gallon condensate
 6,000 gallon Super "E" containing 4#/gallon 20-40 sand
 4,000 gallon condensate
 6,000 gallon Super "E" containing 4#/gallon 20-40 sand
 4,000 gallon condensate
 6,000 gallon Super "E" containing 4#/gallon 20-40 sand

Note: The 12,000 gallon pad in Stage 2 contained 15 RCP, 1.4 sp. gr. balls. The 12,000 gallon pad in Stage 3 contained 20 RCP, 1.4 sp. gr. balls. While pumping 2nd 4#/gallon volume on 3rd stage, increased sand concentration to 9#/gallon, for a total of 7,000 gallons.

CONTINUED ON PAGE 24

DAILY DRILLING REPORT

PAGE 22

MAPCO INC. HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & M

UINTAH COUNTY, UTAH

3-16-75
(con't
from
page 21)

- (1) 13 hours, 10/64" choke, FTP of 1,000-930 psi, made 178 barrels fluid and gas averaged 240 MCFD.
- (2) 2½ hours, 10/64" choke, FTP of 1,050-1,000 psi, made 25 barrels fluid.
- (3) 1 hour, 12/64" choke, FTP of 1,000 psi, made 19 barrels fluid, gas averaged 200-250 MCFD.
- (4) 4½ hours, 14/64" choke, FTP of 850-800-850 psi, made 82 barrels fluid, gas averaged 100-160 MCFD.

3-17-75 T.D. 9,600'; flowing well through test separator. Flowed well through test separator as follows:

- (1) 1½ hours, 16/64" choke, FTP of 750-700 psi, made 33 barrels fluid, gas averaged 95-195 MCFD.
- (2) 4¼ hours, 20/64" choke, FTP of 600 psi, made 136 barrels fluid, gas averaged 325-200 MCFD.

Changed from ceramic positive bean choke to an adjustable choke.

- (3) 8 hours, 24-26/64" chokes, FTP of 600-500 psi, made 100 barrels fluid, gas averaged 400-440 MCFD.
- (4) 10 hours, 32/64" choke, FTP of 400-390 psi, made 192 barrels fluid, gas averaged 467 MCFD.

Fluid recovery past 24 hours was 461 barrels. Total fluid recovery for fraced interval 7,892'-8,263' to 6:00 AM, 3-17-75, was 1,535 barrels. Frac load was 2,606 barrels.

3-18-75 T.D. 9,600'; pulling out to set BP. Flowed well through test separator on 32/64" choke with FTP of 390-300 psi. Made 67.5 barrels fluid and averaged 477 MCFD in 5½ hours. Shut well in and unseated RTTS. Circulated 340 barrels of 10 ppg CaCl₂ water down tubing. Lost approximately 40 barrels. Tripped out with RTTS. Tripped in with BP retrieving tool. Tagged sand at 8,299' (15' of fill). Circulated sand off top of BP. Circulated 2 hours to circulate out gas. Latched onto BP. Pulling uphole with BP. Total fluid recovery to 6 AM, 3-18-75, was 1,603 barrels.

MAPCO INC. HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & M

UINTAH COUNTY, UTAH

3-14-75
(cont.
from
page 20)

SI - 2,100 psi. Flowed well while rigging up to frac. Halliburton tested lines to 10,000 psi. Halliburton fraced with Super Emulsifrac as follows:

20,000 gallons Super Emulsifrac pad
6,000 gallons " " with 1#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 2#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 3#/gal. 20-40 sand
4,000 gallons Condensate with 5 - 7/8" RCN balls
6,000 gallons Super Emulsifrac with 4#/gal. 20-40 sand
4,000 gallons Condensate with 5 - 7/8" RCN balls
6,000 gallons Super Emulsifrac with 4#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 4#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 4#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 4#/gal. 20-40 sand
4,000 gallons Condensate
6,000 gallons Super Emulsifrac with 4#/gal. to 8#/gal. 20-40 sand

Displaced to top perf 7,892' with condensate. Pumped at average of 17 BPM and 8,500 psi. ISIP, 5 minutes SI, 10 minutes SI, 15 minutes SI, 3,900 psi. SI 60 minutes, 3,900 psi. Pumped a total of 106,000 gallons with 190,000# of 20-40 sand. Opened well on 6/64" ceramic positive bean choke with 3,700 psi FTP. Flowed 82 barrels on 6/64" with FTP 3,700-2,975 psi from 6:20 PM to 11:30 PM, 3-13-75. Well shut in from 11:30 PM, 3-13-75, to 2:00 AM, 3-14-75. Choke plugged off with frac ball. Chiksan washed out and line plugged with sand. Replaced Chiksan and unplugged line. Flowed 190 barrels on 10/64" choke with FTP, 2,800 psi from 2:00 AM to 5:30 AM, 3-14-75. Chiksan and choke washed out. Waiting on choke nipple. Total recovery after frac to 6:00 AM, 3-14-75, was 284 barrels.

3-15-75 T.D. 9,600'; flowing well to frac tanks. Flowed well to frac tanks as follows: (1) Made 98 barrels fluid in 6½ hours on 6/64" choke with FTP of 3,100-2,600 psi. (2) Made 385 barrels fluid in 13½ hours on 8/64" choke with FTP of 2,500-1,000 psi.

3-16-75 T.D. 9,600'; flowing well through test separator. Flowed well to frac tank for ½ hour on 8/64" ceramic positive bean choke with FTP of 1,000 psi and made 3 barrels fluid. Flowed well through test separator on ceramic positive bean chokes as follows:

CONTINUED ON PAGE 22

MAPCO INC. HOPE UNIT NO. 2-8NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH

- 3-12-75 T.D. 9,600'; attempting to kill well with Halliburton pump truck. Continued trying to blow down well through 11/64" choke (test unit). Pressure remained at 1,100 psi while making approximately 60 MCF/D. Opened well through 2" line through main choke. Blew well to 300 psi in 30 minutes making gas. Well began slugging condensate then went to continuous condensate for 10-15 minutes. Pinched well back, began intermittent gas and condensate production. Well was making small amount of gas at 0 psi. Attempted to run RTTS; when opened blind rams, well blew slug of condensate. Shut in BOPE. Began heading up condensate, water, and gas. Production went to water and gas, then died down. Attempted to run RTTS. When opened blind rams, well blew slug of water. Shut in BOPE. Well made water and gas with no indication of pressure draw down. Rigged up Halliburton to pump into well. Pumped 87 barrels while pressure decreased from 600 psi to 350 psi. Pumped 13 barrels as pressure increased to 500 psi. Shut down. Bled back 5± barrels, pressure decreased to 150 psi and held. Pumped 47 barrels, increasing pressure to 1,400 psi. Left shut in 30 minutes. Bled back gas until pressure was 1,000 psi. Pumped in to 1,450 psi, shut in, bled down gas to 1,000 psi. Repeated 3 times pressuring to 1,500 psi, bleeding to 1,000 psi. Last time bled to 500 psi and held for 45 minutes. No change in pressure. Pumped total of 238 barrels.
- 3-13-75 T.D. 9,600'; flowing well. Continued bullheading salt water into well with Halliburton pump truck. Killed well after pumping a total of 320 barrels of salt water. Repaired air lines on Colorado Well Service Rit #77. Tripped in hole with RTTS on 3½" and 2-7/8" tubing with Otis X plug in bottom of tubing. Filled pipe after 30 and 60 stands were run. Rigged up Otis wireline truck. Pulled X plug from bottom of tubing. Set RTTS at 6,637'. Vented gas from annulus for 6 hours until annulus was dead. Flowed well through tubing for 3½ hours.
- 3-14-75 T.D. 9,600'; continued flowing well. Put well through test separator. Averaged 285 MCFD during 30 minute test and also made water. Rigged up Halliburton to break down interval 7,892'-8,263'. Spotted 5 sacks of sand on bridge plug at 8,333'. Broke down interval 9,892'-8,263' with 250 barrels, 2% KCl water and dropped 50 - 7/8" RCN balls with 1.4 specific gravity. Would pump 750 gallons of KCl water then drop 5 balls during next 250 gallons. Repeated 5 times then dropped 10 balls in a cluster instead of 5. Then completed job dropping balls in clusters of five as above. Broke down formation with 7,200 psi. Pressure decreased to 6,600 psi and still declining when pump suction plugged with rag. Unplugged and began pumping 9.5 BPM at 5,500 psi. After dropping 10 ball cluster, increased rate to 14 BPM at 6,400 psi with decrease to 6,200 psi. Had some ball action. Lost pump suction at time 10 ball cluster should have hit perfs. Switched tanks. Brought pressure to 4,500 psi at end of job. ISIP, 2,800 psi, 5 minutes SI - 2,500 psi, 10 minutes SI - 2,300 psi, 15 minutes

CONTINUED ON PAGE 21

MAPCO INC. HOPE UNIT NO. 2-8NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH

- 3-9-75 T.D. 9,600'; Halliburton pumping CaCl₂ water. Pulled tubing with packer, started into hole with Halliburton retrieving head to move bridge plug. Well started unloading. Got 9 joints of 2-7/8" tubing in and TIW valve in place before shutting rams. Attempted to kill by "bullheading" with 9.7#/gallon CaCl₂ water with rig pump. Called out Halliburton and pumped 240 barrels CaCl₂ water at 1,400 psi over night. Casing and liner capacity to the perms, 285 barrels.
- 3-10-75 T.D. 9,600'; tripping in with tubing to retrieve BP. Attempted to kill well. Halliburton pumped total of 320 barrels CaCl₂ water (9.7#/gallon) down tubing while annulus being vented. Shut down Halliburton, pressure dropped to 50 psi. Pulled 4 stands to check joint make up. Installed 2-7/8" Otis Hydril retrievable plug and seating nipple. Three joints off bottom, installed stripping head. Ran tubing to 4,700', pumped at 2 BPM down tubing, through plug to circulate out gas cut water in annulus. Well continued to flow gas through annulus after circulating for 2 hours. Ran tubing to 6,563'. Set down on liner hanger, worked through and ran on to approximately 8,000', fished Otis plug. Continued running tubing. At 6 AM, 3-10-75, tubing ran to 8,475'± with no fill.
- 3-11-75 T.D. 9,600'; tagged fill at 8,522'. Circulated tubing down through 74' of fill at 8 BPM with 9.7 ppg salt water. Retrieved BP at 8,596', pulled and reset at 8,333'. Pressure tested BP with 1,200 psi. Had to go to burn pit entire time well was circulated due to gassiness and condensate recovery. Tripped out of hole with tubing. Annulus opened to pit. Small amount of surging and venting. Rigged up GO International to perforate. Opened blind-rams with small surge of gas. GO went into hole with pack-off head (no lubricator). Perforated two holes at 8,263' (BHC Sonic-GR depth) with 14 gram Harrison jet charges in 3-3/8" hollow steel carrier casing gun. The rest of the charges would not fire. Pulled perforating gun to repair. Had pressure at surface and well tried to unload when GO pulled tool out at approximately 5:30 PM, 3-10-75. Gun repaired, ready to go back in. Opened blow line and well flowed gas, condensate, and water. Could not blow down pressure. GO called for lubricator. Rigged up lubricator. GO went in hole with perforating gun and collar locator. Perforated the following BHC Sonic-GR depths with two shots: 8,256', 8,250', 8,243', 8,209', 8,203', 8,196', 8,109', 8,104', 8,067', 8,062', 8,005', 7,994', 7,987', 7,905', 7,899', 7,892'. Rigged out GO International. Flowed well to pit. Went directly through 2" blow down line, no chokes. Could not blow well down. Well appeared to be making mostly gas and condensate. Pumped into kill line with rig pump. Pressured up to 1,300 psi after pumping about 60 barrels, 9.2# salt water. Shut well in at approximately 3:30 AM, 3-11-75. Put annulus through tester on small choke at 5:30 AM, 3-11-75. Flowing pressure, 1,050 psi. Rate at 60 mcf, no appreciable fluid.

MAPCO INC., HOPE UNIT NO. 2-8NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH

- 3-6-75 T.D. 9,600'; setting RTTS. Flowing well. First hour well flowed 5 gallons every 20 seconds. Last 15 minutes of flow period, well flowed 5 gallons in 60 seconds. Pulled out of rope socket. Left swab tool in hole (approximately 20' of 1-3/4" sinker bars and 3 1/2" Guiberson swab. Laid down flowhead. Flowed well. Could not trip. Flowed heavily gas cut water and live acid. Well flowed back 3 1/2" Guiberson swab cup. Sinker bars still in hole. Died at 3 PM, 3-5-75. Ran in with GO International wireline and sinker bars. Tagged fish at 6,512'. Rigged up to fish on wireline. Waited on fishing tools. Rigged up fishing tools. Fished for swab tool--made two runs. No recovery. Rigged up to trip and round tripped tubing. Recovered swab tool at change-over sub between 3 1/2" tubing and 2-7/8" tubing. Note: well flowed from 4:40 PM to 6:00 PM, 3-5-75, and died.
- 3-7-75 T.D. 9,600'; flow testing well. Set RTTS at 6,637' and installed 5,000 psi valve on top of 3 1/2" tubing. Hauled and heated water for frac. Heated and hauled water and rigged up Halliburton. Pressure tested surface frac lines to 10,000 psi. Halliburton pumped 20,000 gallons Super Emulsifrac pad. Pumped 6,000 gallons Super Emulsifrac containing 20-40 sand followed by 4,000 gallons condensate-naptha blend eight times. Sand concentration was 1#/gallon in first 6,000 gallons, 2#/gallon in 2nd, 3#/gallon in 3rd, and 4#/gallon in 4th through 8th 6,000 gallons. Then pumped 6,000 gallons Super Emulsifrac with 20-40 sand concentration varying from 4#/gallon to 8#/gallon. Flushed to top perf with 3,780 gallons condensate-naptha blend. Average rate and pressure was 18.5 BPM and 9,050 psi during frac job. ISIP--4,300 psi, 5, 10, and 15 minutes--4,200 psi. Held 2,000 psi on annulus throughout job. Frac job completed at 3:30 PM, 3-6-75. Total frac fluid pumped was 106,000 gallons with 190,000# of 20-40 sand. Rigged down Halliburton and rigged up to flow test well. Began flowing well to frac tank at 4:45 PM, 3-6-75, on 6/64" positive ceramic bean choke. Well made 31 barrels of fluid in 45 minutes on a 6/64" choke and 4,600-4,300 psi. Well made 462 barrels of fluid in 12 1/2 hours on a 10/64" choke and 4,200-1,700 psi.
- 3-8-75 T.D. 9,600'; preparing to trip RTTS. Tested interval 8,376'-8,536' following frac job. Started well through test separator at 12:00 noon, 3-7-75. Tested 14 BPH fluid water and condensate emulsion. FTP, 850 psig. Gas rate, 200 mcfpd. Continued testing over night. Gas rate fluctuated between 200 and 275 mcfpd. FTP dropped to 350 psi with a fluid rate of 8 to 12 BPH fluid. Mostly condensate. Total fluid recovery approximately 950 barrels. Shut well in. Preparing to trip packer.

MAPCO INC., HOPE UNIT NO. 2-8NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH

- 3-4-75 T.D. 9,600'; tripping out with tubing to perforate. Completed trip in with bridge plug retrieving tool to top of sand. Flowed well through choke. Waited on water and KCl, building volume. Hole took 350 barrels. Reverse circulated. Washed down 3 joints and 8' of 4th joint through frac sand to bridge plug. Reverse circulated and retrieved bridge plug. Reverse circulated to clean hole. Rigged up to trip out. Pulled 3 stands and 5 singles, strapped same. Set bridge plug at 8,638'. Attempted to test plug at 800 psi. Pump stalled out (one motor down and small leak in 3½" ram). Tripped out with tubing (SLM).
- 3-5-75 T.D. 9,600'; waiting on daylight to swab. Completed strapping out of hole with 3½" and 2-7/8" tubing. Rigged up GO International. Perforated the following BHC Sonic-GR depths with 2 shots/foot using 14 gram charge Harrison jets in 3-3/8" hollow steel casing gun: 8,536', 8,534', 8,510', 8,505', 8,503', 8,488', 8,486', 8,432', 8,430', 8,391', 8,385', 8,380', 8,376'. Rigged down GO International. Changed out 3½" rams. Hooked up rotating head. Made up RTTS tool and tripped in with RTTS on 3 joints of 2-7/8" tubing and 102 stands and single joint of 3½" tubing. Set RTTS at 6,637'. Rigged up Halliburton. Pressure tested surface lines to 10,000 psi. Established break-down rate with 2% KCl water at 14+ BPM and 6,200 psi. Pumped 2,500 gallons, 15% HCl containing 8 gallons/1,000 3-N, 8 gallons/1,000 HAI-50, 13 gallons/1,000 HC-2 and 41 - 7/8" RCN balls at average of 14+ BPM and 6,600 psi. Displaced acid with 3,240 gallons, 2% KCl water at 14+ BPM and 6,800 psi. Balled out at 9,200 psi. Released pressure to allow balls to drop off perfs. Over displaced acid with a total of 3,990 gallons KCl water. Held 2,000 psi on annulus. Rigged down Halliburton. Rigged up to swab. Waiting on daylight to swab. Well shut in. Note: all depth measurements are references to KB of Pease Drilling Rig (KB to GL - 17') and all subsequent reports will be to Pease Drilling KB.

CORRECTION TO THE REPORT OF 2-26-75: Halliburton retrievable bridge plug was set at 9,050', not 9090' as reported.

CORRECTION TO THE REPORT OF 3-4-75: Halliburton retrievable bridge plug set at 8,596', not 8,638' as reported.

MAPCO INC., HOPE UNIT NO. 2-8NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH

- 2-28-75 3,400 psi, 15 minutes--3,200 psi. Completed job at 3:30 PM, 2-27-75. (con't Rigged down Halliburton. Rigged up to flow well. SITP at 5 PM, 2-27-75, from was 3,800 psi. Opened well to frac tank at 5 PM, 2-27-75 on 10/64" page 15) choke. Well flowed approximately 500 barrels fluid in 1 hour. Initial FTP, 3,200 psi and decreased to 750 psi in approximately 20 minutes. Shut in well. Installed a 2nd 4", 5,000 psi master valve, 2", 5,000 psi wing valve, and 6/64" ceramic positive bean choke. Flowed well from 10:30 PM, 2-27-75, to 6:00 AM, 2-28-75, on 6/64" choke with 3,700 psi FTP and made 84 barrels fluid, from 11:30 PM to 6:00 AM (6½ hours, 12.9 BPH). No gauge from 10:30 PM to 11:30 PM. Total frac fluid pumped was 106,000 gallons with 190,000# of 20-40 sand.
- 3-1-75 T.D. 9,600'; well flowed to frac tanks for 24 hours. Recovered 29 barrels of fluid in 2 hours through a 6/64" choke at 3,700-3,500 psi FTP. Recovered 848 barrels of fluid in 22 hours through 10/64" choke at 3,500-1,000 psi FTP. Total fluid recovered to 6:00 AM, 3-1-75, was 1,555 barrels.
- 3-2-75 T.D. 9,600'; flowed well to frac tank for 3½ hours on 10/64" choke at 1,000-950 psi FTP. Recovered 25 barrels of fluid. Flowed well through test separator for 4 hours and made 52 barrels fluid and averaged 470± MCFD. Flowed through 1" orifice and held 600 psi back pressure on separator on following chokes:
- 2 hours--15/64" choke, FTP 925-900 psi
 - 1½ hours--20/64" choke, FTP 760-730 psi
 - ½ hour--38/64" choke, FTP 660 psi
- Flowed well through separator for 9 hours and made 106 barrels fluid and averaged 250± MCFD. Flowed gas through 3/4" orifice, holding a back pressure on separator of 500 psi for 3½ hours and then 400 psi for 5½ hours. Flowed through 38/64" choke with FTP of 520-400 psi. Made approximately 330 barrels of fluid during this report period bringing total fluid recovery to approximately 1,885 barrels.
- 3-3-75 T.D. 9,600'; going in hole to retrieve retrievable bridge plug. Flowed well through separator on 38/64" choke, recovered 47 barrels of fluid and average gas flow rate was 196.5 MCFPD. Filled tubing. Killed well. Unset packer, and laid down flow valves. Went in hole to 8,994'. Tagged sand, broke circulation, and circulated 1 joint down. Couldn't circulate past packer. Laid down power swivel. Tripped out with packer. Broke down RTTS packer. Went in hole to retrieve bridge plug. Note: made approximately 80 barrels fluid during report period. Approximate total recovered to 6:00 AM, 3-3-75, was 1,965 barrels.

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

SUBMIT IN DUPLICATE

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

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

U-8345

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Hope Unit

8. FARM OR LEASE NAME

9. WELL NO.

2 - 8

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

**Section 8
T. 11 S., R. 21 E.**

12. COUNTY OR PARISH

Utah

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
MAPCO Inc.

3. ADDRESS OF OPERATOR
**Suite 320 Plaza West
1537 Avenue D, Billings, Montana 59102**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **1873' FWL & 2147' FSL, Section 8**
At top prod. interval reported below
At total depth **Same**

14. PERMIT NO. **43-047-30189** DATE ISSUED **9-30-75**

15. DATE SPUNDED **10-18-74** 16. DATE T.D. REACHED **12-13-74** 17. DATE COMPL. (Ready to prod.) **4-4-75** 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* **5476' K.B.** 19. ELEV. CASINGHEAD **5461'**

20. TOTAL DEPTH, MD & TVD **9600'** 21. PLUG, BACK T.D., MD & TVD **9539'** 22. IF MULTIPLE COMPL., HOW MANY* **→** 23. INTERVALS DRILLED BY **→** ROTARY TOOLS **Yes** CABLE TOOLS **No**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Mesaverde 6838 - 9512' 25. WAS DIRECTIONAL SURVEY MADE **No**

26. TYPE ELECTRIC AND OTHER LOGS RUN
BHC Sonic-GR; Dual LL; FDC-CNL 27. WAS WELL CORED **No**

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36	2022	12-1/4	350 sx 65/35 Poz+200 sx'16"	
7"	23	6880	7-7/8	730 sx Halco Lt.+ 50 sx'16"	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5"	6557	9586	1025 50/50		2-7/8	6546'	6551

31. PERFORATION RECORD (Interval, size and number)
8987-7288 selectively
(See attached record)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8987-7288	Frac treatment 12,500 bbls. 909,000# 20-40 sand

33.* PRODUCTION

DATE FIRST PRODUCTION **2-26-75** PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) **Flowing - unloaded water - Frac treated** WELL STATUS (Producing or shut-in) **Cleaning up frac**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4-9-75	10 hrs. (Stab)	20/64"	→		660*		

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
300	Packer	→		1586		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY
***Stab rate - Prod. frac fluid (Avg. 10 BPH)** **E. D. Duncan**

35. LIST OF ATTACHMENTS
One - Perforations

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

SIGNED J. D. Holliman TITLE **Manager of Operations Northern District** DATE **4-30-75**

*(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 PRESSURE, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			<p>DST #1: 6082-6184' - Packers set at 6075' and 6082'</p> <p>IN 3126 psi; IF 20 mins., open 135psi, closed 108 psi; IS1 60 mins., 378 psi; FF 120 mins., open 122 psi, closed 122 psi; FSI 120 mins, 944 psi. Sample chamber had 800 psi and 132°F. Rec. 1700 cc of mud with resistivity of .98 ohms at 72°F, 5,000 ppm chlorides and 0.9 cubic ft. gas. Pit mud resistivity .98 ohms at 72° F and 5000 ppm chlorides. Mud filtrate resistivity .82 ohms at 132° F and 3800 ppm chlorides. BHT 198°F</p>	<p>Mesatch Mesaverde Manco</p>	<p>3845 6838 9512</p>	

38.

GEOLOGIC MARKERS - E-Logs

Attachment for Well Completion Report and Log on:

MAPCO, Hope Unit No. 2-8
NE SW Section 8, T. 11 S., R. 21 E.
Uintah County, Utah

ITEM 31:

Perforated the Mesaverde with two shots per foot using a casing jet gun as follows: (All depths are BHC Sonic GR)

8987, 8983, 8980, 8943, 8941, 8931, 8928, 8856, 8851, 8849, 8842, 8760,
8758, 8741, 8738, 8536, 8534, 8510, 8505, 8503, 8488, 8486, 8432, 8430,
8391, 8385, 8380, 8376, 8263, 8256, 8250, 8243, 8209, 8203, 8196, 8109,
8104, 8067, 8062, 8005, 7994, 7987, 7905, 7899, 7892, 7846, 7842, 7779,
7774, 7770, 7693, 7690, 7665, 7658, 7639, 7636, 7621, 7618, 7587, 7583,
7514, 7505, 7492, 7477, 7453, 7346, 7340, 7323, 7321, 7298, 7288.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE
LEASE NUMBER U-83345
UNIT Hope Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 19 75, MAPCO, Hope Unit No. 2-8

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102

Phone 406/248-7406 Signed Agnes M. Model
Agent's title Geological Clerk & Secretary

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; data and result of test for gasoline content of gas)
NE SW Sec. 8	11S	21E	2							See attached sheets for daily activity during month.

Confidential

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

Confidential

5-17-75 Made 64 barrels in 24 hours from 7 AM, 5-16-75, to 7 AM, 5-17-75.
 (Cont. When well kicks, pressure on well head and tubing goes up to 20
 from psi; otherwise, it stays on 0 psi. Fluid sample indicates making
 Page 38) 60% 8.7 ppg water and 40% oil.

5-18-75 T.D. 9,539' PBD; well flowed through separator as follows:

<u>Time</u>	<u>MCFD</u>	<u>FTP Psi</u>	<u>Choke Size</u>	<u>Back Pressure (psi)</u>	<u>Orifice Plate</u>
10 AM, 5-17-75	775	0-20	64/64"	0-20	2.25"
12 Noon	529	"	"	"	"
2 PM	740	"	"	"	"
4 PM	329	"	"	"	"
6 PM	775	"	"	"	"
8 PM	352	"	"	"	"

Well made 80 barrels in 24 hours from 7 AM, 5-17-75, to 7 AM, 5-18-75.

5-19-75 T.D. 9,539' PBD; well flowed through separator as follows:

<u>Time</u>	<u>MCFD</u>	<u>FTP Psi</u>	<u>Choke Size</u>	<u>Back Pressure (psi)</u>	<u>Orifice Plate</u>
7 AM, 5-18-75	775	0-20	64/64"	2-20	2.25"
9 AM	329	"	"	"	"
11 AM	740	"	"	"	"
1 PM	329	"	"	"	"
3 PM	775	"	"	"	"
5 PM	329	"	"	"	"

Well made 88 barrels in 24 hours from 7 AM, 5-18-75, to 7 AM, 5-19-75.

5-20-75 T.D. 9,539' PBD; flowed well through separator as follows:

<u>Time</u>	<u>MCFD</u>	<u>FTP Psi</u>	<u>Choke Size</u>	<u>Back Pressure</u>	<u>Orifice Plate</u>
6 AM, 5-19-75	235	0-20	64/64"	0-20	2.25"
10 AM	235	"	"	"	"
12 Noon	493	"	"	"	"
2 PM	179	0-30	"	0-30	2.00"
4 PM	179	"	"	"	"
6 PM	790	"	"	"	"
9 PM	777	"	"	"	"
1 AM	500	"	"	"	"
6 AM	777	"	"	"	"

Changed orifice from 2.25" to 2.00" at 2 PM, 5-19-75.

DAILY PRODUCTION REPORT

Confidential

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

5-15-75 T.D. 9,539' PBSD; well flowed through separator as follows:

<u>Time</u>	<u>MCFD</u>	<u>FTP Psi</u>	<u>Choke Size</u>	<u>Back Pressure (psi)</u>	<u>Orifice Plate</u>
6 AM, 5-14-75	341	10	64/64"	10	1.50"
9 AM	170	8	"	8	"
10 AM	247	15	"	15	"
11 AM	698	65	"	65	"
12 Noon	Turned well to burn pit. Worked on chart clock. Removed flow line back pressure valve.				
1 PM	198	0	"	0	"
2 PM	613	50	"	15	"
2:15 PM	681	50	"	15	"
3 PM	232	0	"	0	"
4 PM	164	0	"	0	"
5 PM	232	0	"	0	"

Well made 60 barrels fluid from 6 AM, 5-13-75, to 6 AM, 5-14-75, and 28 barrels fluid from 6 AM, 5-14-75, to 5 PM, 5-14-75.

5-16-75 T.D. 9,539' PBSD; well flowed through separator as follows:

<u>Time</u>	<u>MCFD</u>	<u>FTP Psi</u>	<u>Choke Size</u>	<u>Back Pressure (psi)</u>	<u>Orifice Plate</u>
2 PM, 5-15-75	906	0-20	64/64"	20	2.25"
3 PM	1150	0-20	"	20	"
4 PM	539	0-20	"	0	"
5 PM	539	0	"	0	"

Well made 76 barrels fluid from 5 PM, 5-14-75, to 5 PM, 5-15-75. This fluid was approximately 60% oil and 40% water.

5-17-75 T.D. 9,539' PBSD; well flowed through separator as follows:

<u>Time</u>	<u>MCFD</u>	<u>FTP Psi</u>	<u>Choke Size</u>	<u>Back Pressure (psi)</u>	<u>Orifice Plate</u>
7 AM, 5-16-75	740	0-20	64/64"	20-0	2.25"
9 AM	282	"	"	"	"
11 AM	723	"	"	"	"
1 PM	493	"	"	"	"
3 PM	691	"	"	"	"
5 PM	329	"	"	"	"
7 PM	691	"	"	"	"
9 PM	775	"	"	"	"

DAILY PRODUCTION REPORT

PAGE 37

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

Confidential

5-13-75 T.D. 9,539' PBD; flowed well through separator as follows:

<u>Time</u>	<u>MCFD</u>	<u>Separator Back Press. (Psi)</u>	<u>Choke Size</u>	<u>Orifice Plate</u>
6 AM, 5-12-75	345	20	64/64"	1.50"
7 AM	227	10	"	"
8 AM	227	10	"	"
9 AM	170	0	"	"
10 AM	534	40	"	"
11 AM	170	10	"	"
12 Noon	191	10	"	"
1 PM	500	40	"	"
2 PM	170	5	"	"
3 PM	307	10	"	"
4 PM	363	25	"	"
4:30 PM	711	60	"	"
5 PM	378	10	"	"

Well made 82 barrels fluid from 6 AM, 5-11-75, to 6 AM, 5-12-75, and 27 barrels fluid from 6 AM, 5-12-75, to 5 PM, 5-12-75.

5-14-75 T.D. 9,539' PBD; flowed well through separator as follows:

<u>Time</u>	<u>FTP</u>	<u>MCFD</u>	<u>Choke</u>	<u>Separator Back Press. (Psi)</u>	<u>Orifice Plate</u>
6 AM, 5-13-75	5	170	64/64"	5	1.50"
7 AM	5	170	"	5	"
8 AM	10	378	"	10	"
8:30 AM	50	662	"	50	"
9 AM	0	177	"	0	"
10 AM	10	420	"	10	"
11 AM	50	381	"	30	"
11:30 AM	75	674	"	50	"
12 Noon	0	247	"	12	"
1 PM	8	284	"	8	"
2 PM	25	363	"	25	"
3 PM	10	354	"	10	"
4 PM	10	204	"	10	"
5 PM	10	341	"	10	"

Well made 62 barrels fluid from 6 AM, 5-12-75, to 5-13-75, and 30 barrels fluid from 6 AM to 5 PM, 5-13-75.

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

Confidential

5-10-75 T.D. 9,539' PBD; flowed well as follows:

<u>Time</u>	<u>MCFD</u>	<u>Choke Size</u>	<u>Separator Back Pressure PSI</u>	<u>Orifice Plate</u>
6 AM, 5-9-75	363	64/64"	25	1.50"
7 AM	614	"	60	"
8 AM	290	"	15	"
9 AM	363	"	25	"
10 AM	480	"	35	"
11 AM	204	"	10	"
12 Noon	327	"	20	"
1 PM	184	"	0	"
2 PM	247	"	12	"
4 PM	392	"	15	"
5 PM	345	"	25	"

Well made 55 barrels of fluid from 6:00 AM, 5-8-75, to 6 AM, 5-9-75.

5-11-75 T.D. 9,539' PBD; flowed well as follows:

<u>Time</u>	<u>MCFD</u>	<u>Choke Size</u>	<u>Orifice Plate</u>
6 AM to 7:15 AM, 5-10-75	170	64/64"	1.5"
8:30 AM	545	"	"
10:15 AM	363	"	"
10:30 AM to 1:15 PM	170	"	"
1:15 PM to 3:00 PM	245	"	"
3:00 PM to 3:30 PM	725	"	"
6 PM	282	"	"

Well made 90 barrels fluid from 6 AM, 5-9-75, to 6 AM, 5-10-75.

5-12-75 T.D. 9,539' PBD; flowed well as follows:

<u>Time</u>	<u>MCFD</u>	<u>Choke Size</u>	<u>Orifice Plate</u>
6 AM, 5-11-75	177	64/64"	1.50"
7:15 AM	602	"	"
8 AM	91	"	"
10 AM	650	"	"
11 AM	114	"	"
1 PM	750	"	"
2 PM	118	"	"
4 PM	711	"	"
6 PM	170	"	"

Well made 58 barrels of fluid from 6 AM, 5-10-75, to 6 AM, 5-11-75.

DAILY PRODUCTION REPORT

PAGE 35

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

Confidential

5-8-75 (cont'd. from p. 34) At 10 A.M., changed orifice plate from 2 $\frac{1}{4}$ " to 1 $\frac{1}{2}$ ". Caught fluid samples in quart jar as follows:

<u>Time</u>	<u>Remarks</u>
1 P.M.	2" oil and 2-3/4" water in quart jar; approximately 42% oil and 58% water
2 P.M.	4" oil and 3/4" water in quart jar; approximately 84% oil and 16% water
3 P.M.	100% water. Well appeared to be loading up.

Well made 88 barrels fluid from 7 A.M. to 6 P.M., 5-7-75 and made a total of 130 barrels fluid during last 24 hours.

5-9-75 T.D. 9,539' PBTD; flowed well as follows:

<u>Time</u>	<u>Rate MCFD</u>	<u>FTP psi</u>	<u>Choke Size</u>	<u>Separator Back Pressure PSI</u>	<u>Orifice Plate</u>
6 AM, 5-8-75	190	5	64/64"	5	1.50"
7 AM	190	5	64/64"	5	1.50"
8 AM	218	20	64/64"	5	1.50"
9 AM	218	20	64/64"	5	1.50"
10 AM	567	50	64/64"	50	1.50"
11 AM	95	0	64/64"	0	1.50"
12 noon	272	30	64/64"	30	1.50"
3 PM	567	80	64/64"	80	1.50"
3:15 PM	1,240	100	64/64"	100	1.50"
4 PM	190	0	64/64"	0	1.50"
5 PM	381	25	64/64"	25	1.50"
6 PM	381	60	64/64"	60	1.50"

At 6:30 P.M., 5-8-75, changed choke size from 64/64" to 20/64" because separator not functioning properly. Well made 48 barrels fluid from 6:30 A.M. to 6:00 P.M., 5-8-75 and a total of 120 barrels during past 23 hours.

DAILY PRODUCTION REPORT

PAGE 34

Confidential

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

5-6-75 At 6:00 P.M., 5-5-75, shut well in. Well made approximately 20 barrels water during 12 hour flow period. After 12 hours shut in, (report con't. SITP was 1,025 psi at 6 A.M., 5-6-75. from p.33)

5-7-75 T.D. 9,539' PBSD; at 6:00 A.M., 5-6-75, opened well to burn pit through 64/64" choke. Well blew gas for 15 minutes, then started unloading crude oil and water. Well produced as follows:

7:00 to 8:00 A.M. -- flowed approximately 3/4" stream water with 60 psi FTP. Well surging with strong blow.

8:00 to 9:00 A.M. -- flowed approximately 3/4" stream water with 60 psi FTP and strong blow.

9:00 to 10:00 A.M. -- flowed approximately 1/4" steam of water with 40 psi FTP.

Started in hole with NOWSCO 1" coiled tubing pumping N₂ at 11:10 A.M. Began flowing fluid when 1" coiled tubing reached 2,900'. Ran coiled tubing to 9,150' and pumped N₂ until 3:00 P.M. Well unloaded solid 2" stream of water from 1:30 P.M. to 2:10 P.M. Well blew water mist from 2:10 P.M. to 3:00 P.M. (still making a lot of water). Started out of hole with NOWSCO coiled tubing at 3:00 P.M. Shut well in at 4:30 P.M. to hook up low pressure separator. SITP at 6 A.M., 5-7-75, was 1,025 psi.

5-8-75 T.D. 9,539' PBSD; SITP at 6:00 A.M., 5-7-75, was 1,050 psi. At 7 A.M. opened well through separator on a 16/64" choke at 1,000 psi FTP with a 2.25" orifice. Flowed well at following rates and pressures:

<u>TIME</u>	<u>Rate MCFD</u>	<u>FTP psi</u>	<u>Choke Size</u>	<u>Separator Back Press. PSI</u>	<u>Orifice Plate</u>
7 A.M.	1015	1000	16/64"		2 1/4"
8 A.M.	1318	825	24/64"	115	2 1/4"
9 A.M.	921	500	24/64"	40	2 1/4"
10 A.M.	728	175	24/64"	80	2 1/4"
11 A.M.	522	125	32/64"	40	1 1/2"
12 noon	363	50	64/64"	45	1 1/2"
1 P.M.	363	30	64/64"	30	1 1/2"
2 P.M.	419	50	64/64"	30	1 1/2"
3 P.M.	290	30	64/64"	20	1 1/2"
5 P.M.	458	35	64/64"	30	1 1/2"
6 P.M.	290	15	64/64"	15	1 1/2"

MAPCO INC. HOPE UNIT NO. 2-8NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & MUINTAH COUNTY, UTAH*Confidential*

- 5-1-75 T.D. 9,539' PBD; blowing well to burn pit. Well loaded up about every 2 hours and unloaded water for $\frac{1}{2}$ hour. Died down when unloaded water. Well had a strong blow. Estimated water - 30 to 40 barrels water, 38,000 ppm chloride.
- 5-2-75 T.D. 9,539' PBD; well flowed to burn pit for 24 hours through choke with seat removed. Well would load up with water every 2 hours. Well produced approximately 30-40 barrels of water.
- 5-3-75 T.D. 9,539' PBD; flowed well to pit for 12 hours through choke with seat removed at 40 psi FTP. Well headed up every hour with strong blow. Made approximately 35 barrels water in 12 hours. Well was SI from 6 P.M. 5-2-75 to 6 A.M., 5-3-75.
- 5-4-75 T.D. 9,539' PBD; SITP at 6 A.M., 5-3-75 was 1,000 psi. Flowed well through choke with seat removed as follows:
6-7 A.M. -- flowed gas
7-12 noon -- flowed oil, water, gas in continuous stream.
12 noon-6 P.M. -- well headed up every hour with strong blow.
Well shut in from 6 P.M., 5-3-75 to 6 A.M., 5-4-75. Well made approximately 35 barrels water in 12 hours.
- 5-5-75 T.D. 9,539' PBD; at 6 A.M., 5-4-75, SITP was 1,000 psi. Opened well with gas blow for 25 minutes. Pressure decreased to 100 psi in 35 minutes, making oil, water and very strong blow. From 7 A.M. to 12 noon, well had very strong blow. From 12 noon to 6 P.M., well headed up every hour, but did not as strong a blow as in the morning. Well made approximately 35 barrels water in 12 hours. Concentration of chlorine in water was approximately 38,000 ppm. Well shut in from 6 P.M., 5-4-75 to 6 A.M. 5-5-75. SITP 1,025 psi at 6 A.M., 5-5-75.
- 5-6-75 T.D. 9,539' PBD; at 6:00 A.M., 5-5-75, opened well to burn pit through 64/64" choke. Well blew only gas for 30 minutes, then made 5 barrels crude oil and some water in next 30 minutes. Well flowed as follows:
7:00 A.M. to 8:00 A.M.- well would load up and surge water with a strong blow and 100 psi FTP.
9:00 A.M. to 10 A.M. -- flowed approximately $\frac{1}{4}$ " steady stream of water with 50 psi FTP.
10 A.M. to 4 P.M. -- flowed approximately $\frac{1}{4}$ " steady stream of water with 40 psi FTP.
4 P.M. to 6 P.M. -- flowed approximately $\frac{1}{2}$ " steady stream of water with 40 psi FTP.

DAILY PRODUCTION REPORT

PAGE 32

MAPCO INC. HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & M

UINTAH COUNTY, UTAH

Confidential

4-27-75 Flowed well through choke with seat removed. Well made approximately (Cont. 40 to 50 barrels of water. During flow periods, pressure dropped from 550 psi to 40 psi in 30-35 minutes and will stay about the same until the well is shut in. page 31)

4-28-75 T.D. 9,539' PBD; well was flowed and shut in at periodic intervals between 6 AM, 4-27-75, and 6 AM, 4-28-75, as follows:

6:00 AM - 11:00 AM	Flowed to burn pit making 30-40% water and some gas.
11:00 AM - 3:00 PM	Shut in and built pressure to 610 psi.
3:00 PM - 7:00 PM	Flowed to burn pit making 70-80% water. Had good blow.
7:00 PM - 10:00 PM	Shut in and built pressure to 620 psi.
10:00 PM - 5:00 AM	Flowed to burn pit making 60-70% water with good blow.
5:00 AM - 6:00 AM	Shut in to build pressure.

Flowed well through choke with seat removed. Well made approximately 40-50 barrels of water with chloride concentration of approximately 38,000 ppm.

4-29-75 T.D. 9,539' PBD; choke - 16/64". Shut well in 2 hours. Pressure built to 550 psi in a total 3 hours shut in period. Opened well to burn pit for 1 hour. Shut well in 2 hours and built pressure to 400 psi. Flowed well through test separator for 7 hours on 16/64" choke. While going through test separator, well loaded up with so much water that did not have enough pressure to operate separator. Initial gas rate through separator was 344,080 cubic feet of gas per day. Opened well to burn pit. Unloaded water and gas for 12 hours with strong blow. Shut in for 1 hour to build pressure. Well made approximately 45-50 barrels fluid.

4-30-75 T.D. 9,539' PBD; flowed well to pit while repairing treater for two hours. Turned well to treater for four hours during which treater did not work correctly. Worked on treater for five hours. Found valves cut out and full of sand. Shut in well for two hours. Pressure increased from 400 to 500 psi. Flowed well for seven hours through treater at 190 psi until well died and treater plugged off with sand. Blew well to burn pit making 80-90% water with good gas blow at 40-80 psi. Gas production approximately 230 MCF/D. Produced 60 to 70 barrels of water.

MAPCO INC. HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E. SLB & M

UINTAH COUNTY, UTAH

Confidential

4-25-75 T.D. 9,539' PBD; flowed well to pit with seat removed from choke for a total of 21 hours. Well was shut in a total of 3 hours. Well was shut in between 8 AM and 10:30 AM, 4-24-75, to check fluid level with Sun Oil Field Service wireline. Tagged light fluid at 550' and heavy fluid (probably water) at 4,200'. Opened well after rigging down Sun wireline on 48/64" choke. Shut in pressure before opening well was 520 psi and decreased to 250 psi in 10 minutes, decreased to 100 psi in 1½ hours, decreased to 60 psi after 2½ hours and remained throughout remainder of day and night. After checking fluid level, well flowed only gas with small amount of oil and condensate for 2½ hours before starting to unload water. Well headed up for remainder of day and night, unloading a slug of water every 1 to 1½ hours. Well made approximately 80 barrels of water with 42,000 ppm chlorides.

4-26-75 T.D. 9,539' PBD; well was flowed and shut in at periodic intervals between 6 AM, 4-25-75, and 6 AM, 4-26-75, as follows:

6:00 AM-9:00 AM	Shut in. Built pressure to 520 psi.
9:00 AM-12:00	Good blow to burn pit making 70-80% water with some drip.
12:00 -3:00 PM	Shut in and built pressure to 520 psi.
3:00 PM-6:00 PM	Good blow to burn pit making 70-80% water with some drip.
6:00 PM-9:00 PM	Shut in and built pressure to 500 psi.
9:00 PM-12:00	Good blow to burn pit making 70-80% water with some drip.
12:00 -3:00 AM	Shut in and built pressure to 520 psi.
3:00 AM-6:00 AM	Good blow to burn pit making 70-80% water with some drip.

Well flowed during flow periods through choke with seat removed. During flow periods pressure dropped from 520 psi to 40-50 psi in approximately 25 minutes and remained there. Well made approximately 50 barrels of water.

4-27-75 T.D. 9,539' PBD; well was flowed and shut in at periodic intervals between 6 AM, 4-26-75, and 6 AM, 4-27-75, as follows:

Shut well in for 3 hours and built pressure to 550 psi.
 Opened well for 6 hours to pit. Had strong water blow, but died down last hour.
 Shut well in 3 hours and built pressure to 550 psi.
 Opened well for 12 hours to pit. Well headed up and unloaded 20-30% water. After 12 hours still had a good blow.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

LEASE OFFICE _____ U-8345
LEASE NUMBER _____
UNIT _____ Hope Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1975, MAPCO, Hope Unit No. 2-8

Agent's address Suite 320 Plaza West Company MAPCO INC.
1537 Avenue D, Billings, Mont. Signed Agnes M. Model

Phone _____ Agent's title Geological Clerk & Secretary

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)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gas/line content of gas)
NE SW Sec. 8	11S	21E	2							See attached sheets for daily activity during month

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;
no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

DAILY PRODUCTION REPORT

PAGE 44

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

- 6-13-75 T.D. 9,539' PBD; well flowed 36 barrels fluid from 7 AM, 6-12-75, to 7 AM, 6-13-75, through a 6/64" choke with 200 psi FTP. Well averaged approximately 125.7 MCFD through a 2.25" orifice during the above flow period.
- 6-14-75 T.D. 9,539' PBD; well flowed 72 barrels fluid from 7 AM, 6-13-75, to 7 AM, 6-14-75. Well is heading with a gas rate ranging from 177 MCFPD to 672 MCFPD.
- 6-15-75 T.D. 9,539' PBD; well flowed 78 barrels fluid from 7 AM, 6-14-75, to 7 AM, 6-15-75. Well is heading with a gas rate ranging from 243 MCFPD to 702.2 MCFPD.
- 6-16-75 T.D. 9,539' PBD; well flowed 76 barrels fluid from 7 AM, 6-15-75, to 7 AM, 6-16-75. Well is heading with a gas rate ranging from 199 MCFPD to 684 MCFPD.
- 6-17-75 T.D. 9,539' PBD; flowed well for 24 hours on 6/64" choke at 150 psi FTP. Well made 62 barrels fluid. Well flowed gas through 1.5" orifice at alternate average rates of 68.8 MCFD and 193.6 MCFD. Well would flow gas at lower rate for approximately one hour and then at higher rate for approximately one hour during 24 hour period.
- 6-18-75 T.D. 9,539' PBD; well flowed 56 barrels of fluid in 24 hours on a 6/64" choke, with 100 psi FTP. Well would flow gas at a rate of 123 MCFD for approximately one hour and then at a rate of 315 MCFD for approximately one hour during the 24 hour period.
- 6-19-75 T.D. 9,539' PBD; well flowed 46 barrels fluid in 24 hours on a 6/64" choke, with 100 psi FTP. Well would flow gas at a rate of 82 MCFD for approximately one hour and then at a rate of 459 MCFD for approximately one hour during the 24 hour period.
- 6-20-75 T.D. 9,539' PBD; well flowed 48 barrels total fluid in 24 hours on 6/64" choke with 100 psi FTP. Used 1.5" orifice. For the first 20 hours, well was surging every hour with gas rate ranging from 82 MCFD to 211 MCFD. During the last 4 hours the gas rate averaged 215 MCFD.
- 6-21-75 T.D. 9,539' PBD; well flowed 38 barrels fluid in 24 hours on 6/64" choke with 75-100 psi FTP. Fluid was approximately 60% water and 40% condensate. Gas production was approximately 191 MCF.
- 6-22-75 T.D. 9,539' PBD; well made 41 barrels of fluid in 24 hours on 6/64" choke with 75-100 psi FTP. Fluid was approximately 60% water and 40% condensate. Gas production was approximately 206 MCF.

DAILY PRODUCTION REPORT

PAGE 43

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

- 6-3-75 T.D. 9,539' PBSD; made 25 barrels fluid in 10 hours. Shut well in to build pressure. Maximum reading for 2 hours duration: 6.5 x 4 (375 MCF).
- 6-4-75 T.D. 9,539' PBSD; 2-7/8" tubing shut in building pressure, 1,200 psi this AM. One inch tubing open to pit; no recovery.
- 6-5-75 T.D. 9,539' PBSD; pressure built from 1,200 psi at 11 AM to 1,325 psi at 7 AM. One inch tubing still dead.
- 6-6-75 T.D. 9,539' PBSD; 117 hours SITP, 1,400 psi on 2-7/8" - 1" annulus. No pressure, nor flow from 1" tubing.
- 6-7-75 T.D. 9,539' PBSD; pressure up to 1,525 psi on 2-7/8" tubing. No pressure on 1" tubing. No gas and no fluid produced past 24 hours.
- 6-8-75 T.D. 9,539' PBSD; pressure up to 1,575 psi on 2-7/8" tubing. No pressure on 1" tubing. No gas and no fluid produced past 24 hours.
- 6-9-75 T.D. 9,539' PBSD; pressure was 1,650 psi on 2-7/8" tubing. No flow and no fluid produced past 24 hours.
- 6-10-75 T.D. 9,539' PBSD; shut in 24 hours. Tubing pressure at 1,700 psi.
- 6-11-75 T.D. 9,539' PBSD; rigged up NOWSCO to clean water out of bottom of well. Pumped down 1" tubing at 1,500 psi to make sure 1" tubing was open. Pumped down 2-7/8" tubing at 2,000 psi but 1" would not unload. Pack off started to leak. Hooked up to 1" and pumped 300 cubic feet N₂ per minute at 1,500 psi to unload water. Pressure dropped to 1,400 psi. Increased rate to 400 SCF N₂ per minute then to 450. Pumped like this for 3 hours. Then hooked back up to 2-7/8" tubing. Pumped 80,000 SCF N₂ at 1,000 cubic feet per minute, but could not get 1" to unload. Shut well in at 1,500 psi. Well unloaded about 60 barrels fluid, mostly condensate and oil. Pumped total of 165,000 cubic feet of nitrogen.
- 6-12-75 T.D. 9,539' PBSD; SITP, 1,500 psi. Opened well at 2 PM, 6-11-75, on 6/64" choke. FTP, 500 psi. Initial gas rate ranging from 687 MCFPD rate to 1,057 MCFPD rate. Gas rate at 7 PM, 6-11-75, was 275 MCFPD. Gas rate at 12 midnight was 398 MCFPD. Meter was on 2.25" orifice. Flare burned continuously. A total of 54 barrels of fluid was recovered from 2 PM, 6-11-75, to 7 AM, 6-12-75.

DAILY PRODUCTION REPORT

PAGE 42

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

5-30-75 T.D. 9,539' PBTD'; made 62 barrels fluid in 24 hours. Orifice 2.00, factor 27,522. Well is still heading up every 4 hours from 3.2 x 3 to 4.7 x 4.9. Will put in 1.50" orifice 5-30-75.

5-31-75 T.D. 9,539' PBTD; flowed well from 7 AM, 5-30-75, to 7 AM, 5-31-75. Well made 56 barrels fluid (60% water, 40% oil) and flowed at the following gas rates:

<u>Time</u>	<u>MCFD</u>	<u>FTP PSI</u>	<u>Choke Size</u>	<u>Back Pressure (psi)</u>	<u>Orifice Plate</u>
9 AM, 5-30-75	328	0-30	64/64"	0-30	1.50"
12 Noon	156	"	"	"	"
2 PM	445	"	"	"	"
5 PM	156	"	"	"	"
7 PM	401	"	"	"	"
11 PM	439	"	"	"	"
3 AM	449	"	"	"	"
7 AM	147	"	"	"	"

6-1-75 T.D. 9,539' PBTD; flowed with gas rates as follows:

<u>Time</u>	<u>MCFD</u>	<u>FTP PSI</u>	<u>Choke Size</u>	<u>Back Pressure</u>	<u>Orifice Plate</u>
7 AM, 5-31-75	156	0-30	64/64"	0-30	1.50"
9 AM	165	"	"	"	"
1 PM	578	"	"	"	"
5 PM	391	"	"	"	"
8 PM	156	"	"	"	"
10 PM	324	"	"	"	"
7 AM	152	"	"	"	"

6-2-75 T.D. 9,539' PBTD; rigged up NOWSCO. RIH with 1" tubing. Landed tubing at 8,990'. Pumped out tubing plug with nitrogen. Pressure readings from 6.0 to 8.2 decreasing to relatively constant 6.0. Produced 64 barrels in 24 hours. Moved 110 barrels oil to Sorensen 1-5; 165 barrels water to burn pit.

DAILY PRODUCTION REPORT

PAGE 41

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

5-25-75 T.D. 9,539' PBD; well flowed 68 barrels fluid from 7 AM, 5-24-75, to 7 AM, 5-25-75, with gas rates as follows:

<u>Time</u>	<u>MCFD</u>	<u>FTP PSI</u>	<u>Choke Size</u>	<u>Back Pressure (psi)</u>	<u>Orifice Plate</u>
7 AM, 5-24-75	670	0-30	64/64"	0-30	2.00"
9 AM	134	"	"	"	"
11 AM	696	"	"	"	"
2 PM	134	"	"	"	"
4 PM	696	"	"	"	"
6 PM	201	"	"	"	"
8 PM	670	"	"	"	"

5-26-75 T.D. 9,539' PBD; well flowed 62 barrels fluid (60% water, 40% oil) from 7 AM, 5-25-75, to 7 AM, 5-26-75, with gas rates as follows:

<u>Time</u>	<u>MCFD</u>	<u>FTP PSI</u>	<u>Choke Size</u>	<u>Back Pressure</u>	<u>Orifice Plate</u>
8 AM, 5-25-75	214	0-30	64/64"	0-30	2.00"
10 AM	643	"	"	"	"
3 PM	643	"	"	"	"
8 PM	589	"	"	"	"

5-27-75 T.D. 9,539' PBD; flowed well from 7 AM, 5-26-75, to 7 AM, 5-27-75, on 64/64" choke. Made 58 barrels fluid with FTP, 0-30 psi. Well headed up approximately every 5 hours with approximate gas rate of 446 MCFD and then decreasing to approximately 223 MCFD through a 2" orifice.

5-28-75 T.D. 9,539' PBD; flowed well from 7 AM, 5-27-75, to 7 AM, 5-28-75 on 64/64" choke. FTP, 0-30 psi. No fluid measurement. Well headed up approximately every 5 hours with a gas rate of 620 MCFD, then decreased to a gas rate of 309 MCFD through a 2" orifice. At 12 noon, 5-27-75, the gas meter was replaced with a new meter. It has a 100# static spring and a 100 inch differential range.

5-29-75 T.D. 9,539' PBD; flowed 104 barrels of oil in 48 hours through a 64/64" choke from 7 AM, 5-27-75, to 7 AM, 5-29-75. Well headed up approximately every 5 hours with a gas rate of 620 MCFD, then decreased to a gas rate of 309 MCFD through a 2" orifice.

DAILY PRODUCTION REPORT

PAGE 40

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

- 5-21-75 T.D. 9,539' PBD; flowed well through separator on 64/64" choke for 24 hours. Well made total of 66 barrels fluid from 7 AM, 5-20-75. FTP went from a low of 0 to a peak of 30 psi. Well would surge every 3 hours and 15 minutes. Peak lasted total of 20 minutes (5 minutes to build, 10 minutes on peak, 5 minutes bleed off). Gas rate was 179 MCFD until surge then it would increase to 817 MCFD. Gas rate measured across a 2.0" orifice.
- 5-22-75 T.D. 9,539' PBD; flowed well through separator on 64/64" choke from 7 AM, 5-21-75, to 7 AM, 5-22-75. Well made 62 barrels fluid. Gas rates were measured through a 2" orifice. At 8 AM, 5-21-75, gas rate increased from 179 MCFD to 768 MCFD, decreased to 500 MCFD, increased to 714 MCFD, and decreased to 179 MCFD at 9 AM, 5-21-75. Rate remained at approximately 179 MCFD until 12:45 PM, then increased to 670 MCFD, decreased to 286 MCFD, increased to 527 MCFD, and decreased to 179 MCFD at 1:45 PM. From 4:30 PM, to 5:45 PM, gas rate was approximately 491 MCFD. From 9 PM to 10 PM, rate was approximately 402 MCFD. At 1 AM, 5-22-75, differential pressure pen was off chart for approximately one hour then dropped down to a gas rate of approximately 491 MCFD, and at 5 AM, increased to 750 MCFD rate.
- 5-23-75 T.D. 9,539' PBD; flowed well through separator on 64/64" choke from 7 AM, 5-22-75, to 7 AM, 5-23-75. Well made 52 barrels fluid with 0-20 psi FTP. Well flowed gas through 2" orifice at approximate rate of 179 MCFD except for well heading up to 491 MCFD for approximately an hour at a time every 3 to 3½ hours.
- 5-24-75 T.D. 9,539' PBD; flowed well from 7 AM, 5-23-75, to 7 AM, 5-24-75. Well made 64 barrels fluid and flowed at following gas rates:

<u>Time</u>	<u>MCFD</u>	<u>FTP PSI</u>	<u>Choke Size</u>	<u>Back Pressure</u>	<u>Orifice Plate</u>
8 AM, 5-23-75	683	0-30	64/64"	0-30	2.00"
10 AM	335	"	"	"	"
1 PM	723	"	"	"	"
5 PM	696	"	"	"	"
10 PM	662	"	"	"	"
2 AM	482	"	"	"	"

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1975, MAPCO, Hope Unit No. 2-8

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102 Signed Agnes M. Model

Phone _____ Agent's title Geological Clerk & Secretary

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)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 8	11S	21E	2							See attached sheets for daily activity during month.

NOTE.—There were No runs or sales of oil; no M cu. ft. of gas sold;
no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Hope Unit 2-8 7-15-75

T.D. 9,539' PBTD; flowed well 24 hours on a 43/64" choke with 40 psi FTP. Well made 46 barrels of fluid (70% water and 30% oil). Gas averaged 105 MCFD except for 4 heads that had a rate of approximately 600 MCFD for 45 minutes each.

Hope Unit 2-8 7-16-75

T.D. 9,539' PBTD; flowed well 24 hours on a 43/64" choke with 50 psi FTP. Well made 45 barrels of fluid. Gas averaged 105 MCFD except for 3 heads that had a rate of 624 MCFD for 45 minutes each.

Hope Unit 2-8 7-17-75

T.D. 9,539' PBTD; flowed well 24 hours on a 43/64" choke with 40 psi FTP. Well made 42 barrels of fluid. Gas averaged the same as yesterday with 3 heads.

Hope unit 2-8 7-18-75

T.D. 9,539'; flowed well 24 hours on a 43/64" choke with 100 psi FTP. Gas averaged 105 MCFD except for 4 heads that had a rate of 540 MCFD for 45 minutes each.

Hope Unit 2-8 7-19-75

T.D. 9,539'; well made 36 barrels fluid (70% water and 30% condensate) on 43/64" choke with 40 psi FTP in 24 hours. Gas averaged approximately 172 MCF for the 24 hour period measured through 1.5" orifice.

Hope Unit 2-8 7-20-75

T.D. 9,539' PBTD; well made 42 barrels fluid (70% water and 30% condensate) on 43/64" choke with 40 psi FTP in 24 hours. Gas averaged approximately 172 MCF for the 24 hour period measured through 1.5" orifice.

Hope Unit 2-8 7-21-75

T.D. 9,539' PBTD; well made 38 barrels fluid (70% water, and 30% condensate) on 43/64" choke with 100 psi FTP in 24 hours. Gas averaged approximately 172 MCF for the 24 hour period measured through 1.5" orifice.

Hope unit 2-8 7-22-75

T.D. 9,539' PBTD; well made 42 barrels fluid on 43/64" choke with 40 psi FTP in 24 hours. During 24 hour period, gas averaged approximately 127 MCF measured through 1.5" orifice.

Hope Unit 2-8 7-23-75

T.D. 9,539'; well made 32 barrels fluid on 43/64" choke with 40 psi FTP. During the 24 hour period, gas averaged approximately 138 MCF measured through 1.5" orifice. Moved in and rigged up Shevester tubing unit.

DAILY PRODUCTION REPORT

PAGE 46

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

- 7-4-75 T.D. 9,539' PBSD; flowed well 48 hours on a 32/64" choke with 40
8 psi FTP. Well made 80 barrels of fluid (70% water and 30% condensate).
7-5-75 The well heads approximately every 2 hours, and is averaging approximate
281 MCFD through a 1½" orifice.
- 7-6-75 T.D. 9,539' PBSD; flowed well 24 hours on a 32/64" choke with 40 psi FTP.
Well made 34 barrels of fluid. Well heads every 2 hours averaging
approximately 286 MCF through a 1½" orifice.
- 7-7-75 T.D. 9,539' PBSD; flowed well 24 hours on a 64/64" choke at 40 psi FTP.
Well made 54 barrels of fluid (70% water and 30% oil). Average gas
rate of 269 MCFD through a 1½" orifice.
- 7-8-75 T.D. 9,539' PBSD; flowed 38 barrels fluid in 24 hours through a 64/64"
choke with 40 psi FTP. Gas averaged 269 MCF through a 1.50" orifice.
NOWSCO rigged up to pull 1" tubing. Pulled 1" tubing in two at surface.
Rigged up overshot to pull 1" tubing. Was not able to pull 1". Rigged
down NOWSCO.
- 7-9-75 T.D. 9,539' PBSD; flowed 54 barrels fluid last 24 hours on a 64/64"
choke at 100 psi FTP. Gas averaged 312 MCF through a 1½" orifice.
- 7-10-75 T.D. 9,539' PBSD; flowed well 24 hours on a 48/64" choke with 100 psi
FTP. Well made 46 barrels of fluid last 24 hours. Well averaging
82 MCF except for 3 different 30 minute intervals when it headed up
and made 460 MCF. All gas measured through a 1½" orifice.
- 7-11-75 T.D. 9,539' PBSD; flowed 48 barrels of fluid the last 24 hours on a
48/64" choke with 40 psi FTP. Well averaged 107 MCF except when it
headed up 3 times, it then averaged 578 MCF. Gas measured through a
1½" orifice.

Hope 2-8 7-12-75

T.D. 9,539' PBSD; flowed well 24 hours on a 48/64" choke with 100 psi FTP.
well made 48 barrels of fluid. Well is heading with the gas rate varying
from 111 MCFD to 527 MCFD through a 1-1/2" orifice. Hooked NOWSCO to 1"
tubing and pumped 50,000 CF of N2 down 1" and up 2-3/8" and 1" annulus.
Rigged up 1" continuous tubing unit and tried to pull 1" tubing. 1"
tubing pulled into at splice.

Hope 2-8 7-13-75

T.D. 9,539' PBSD; flowed well 24 hours on a 48/64" choke with 40 psi FTP.
well made 18 barrels of fluid (70% water and 30% condensate). Gas averaged
125 MCFD with one head making 266 MCFD. Gas measured through a 1-1/2"
orifice.

Hope 2-8 7-14-75

T.D. 9,539' PBSD; flowed well 24 hours on a 48/64" choke with 100 psi FTP.
well made 44 barrels of fluid (70% water and 30% condensate). Gas averaged
121 MCFD through a 1-1/2" choke.

DAILY PRODUCTION REPORT

PAGE 45

MAPCO INC., HOPE UNIT NO. 2-8

NE/4 SW/4 SEC. 8, T. 11 S., R. 21 E., SLB & M

UINTAH COUNTY, UTAH

- 6-23-75 T.D. 9,539' PBD; well made 58 barrels of fluid in 24 hours on a 6/64" choke with 75-100 psi FTP. Fluid was approximately 70% water and 30% condensate. Gas production was approximately 219 MCF.
- 6-24-75 T.D. 9,539' PBD; well made 42 barrels fluid in 24 hours on a 6/64" choke with 75 psi FTP. Gas production averaged approximately 97 MCF measured through a 1½" orifice.
- 6-25-75 T.D. 9,539' PBD; flowed well 24 hours on a 6/64" choke with 75 psi FTP. Well made 42 barrels fluid and gas averaged approximately 99 MCF measured through a 1½" orifice.
- 6-26-75 T.D. 9,539' PBD; flowed well 24 hours on a 6/64" choke with 50-75 psi FTP. Well made 38 barrels fluid and gas averaged approximately 99 MCF measured through a 1½" orifice.
- 6-27-75 T.D. 9,539' PBD; flowed well 24 hours on a 6/64" choke with 50-75 psi FTP. Well made 42 barrels of fluid (70% water and 30% condensate). Gas averaged approximately 99 MCF measured through a 1½" orifice.
- 6-28-75 T.D. 9,539' PBD; flowed well 24 hours on a 6/64" choke with 125 psi FTP. Well made 44 barrels of fluid (60% water and 40% condensate). Gas averaged approximately 99 MCF measured through a 1½" orifice.
- 6-29-75 T.D. 9,539' PBD; flowed well 24 hours on a 6/64" choke with 100 psi FTP. Well made 42 barrels of fluid (70% water and 30% condensate). Gas averaged approximately 99 MCF through a 1½" orifice.
- 6-30-75 T.D. 9,539' PBD; flowed well 24 hours on a 16/64" choke with 100 psi FTP. Well made 46 barrels fluid (60% water and 40% condensate). The well is heading approximately every 2 hours and reaches a daily rate of 224 MCFD, through a 1½" orifice.
- 7-1-75 T.D. 9,539' PBD; flowed well 24 hours on a 16/64" choke with 100 psi FTP. Well made 44 barrels of fluid. The well is heading approximately every 2 hours. The gas averaged approximately 173 MCF through a 1½" orifice.
- 7-2-75 T.D. 9,539' PBD; flowed well 24 hours on a 22/64" choke with 100 psi FTP. Well made 56 barrels of fluid. Well heads about every 2 hours averaging approximately 280 MCF through a 1½" orifice.
- 7-3-75 T.D. 9,539' PBD; flowed well 24 hours on a 32/64" choke with 50 psi FTP. Well made 54 barrels of fluid (60% water and 40% oil). The well heads about every 1-3/4 hours averaging approximately 409 MCF through a 1½" orifice.

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

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of August, 1975, MAPCO, Hope Unit No. 2-8

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102

Phone 406-248-7406 Signed Agneta M. Model
Agent's title Geological Clerk & Secretary

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	Cu. Ft. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 8	11S	21E	2							See attached sheets for daily activity during month.

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;
no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Hope Unit 2-3 8-15-75

T.D. 9,539' PBTD; well made 6 barrels of fluid last 24 hours. Well made 3 heads of gas with a rate of 115 MCFD. Shut well in at 1 PM. There was no pressure on the well head when open on a 48/64" choke.

Hope Unit 2-3 8-17-75

T.D. 9,539' PBTD; well shut in for pressure buildup with 100 psi tubing pressure, but lubricator wireline was leaking gas. Called Cable out and fixed lubricator.

Hope Unit 2-3 8-18-75

T.D. 9,539' PBTD; shut in for pressure buildup.

Hope Unit 2-3 8-19-75

T.D. 9,539' PBTD; shut in for pressure buildup. Well head pressure was 575 psi. Wireline lubricator was leaking again. Cable repaired it.

Hope Unit 2-3 8-20-75

T.D. 9,539' PBTD; shut in tubing pressure, 700 psi. Cable Wireline pulled pressure bomb at 7:30 PM, 8-19-75. Surface dead weight pressure, 820 psi (680 psi gauge). Ran gradient survey to TD making stops every 250' for 1st 1,000', every 500' for next 2,000', and every 1,000' to surface. Visual examination of chart showed pressure still building. Will get chart readings today.

Hope Unit 2-3 8-21-75

T.D. 9,539' PBTD; well shut in. SIIP, 900 psi. Shebester Rig moved on to location, and will rig up today. Cable did not get pressure chart read.

Hope Unit 2-3 8-22-75

T.D. 9,539' PBTD; shut in pressure was 1,200 psi. Opened tubing to pit and bled off pressure. Opened casing to pit, bleeding off pressure from then until 2 PM. At that time started to pump 10# salt water down the back side. Pumped for 30 minutes approximately 55 barrels. Tubing had 900 psi. Bled off pressure at 2:30. Started to pump down tubing for 30 minutes approximately 45 barrels. Still have pressure on casing. Pumped approximately 175 barrels salt water into casing from 3 to 4:30 PM. Flow to pit-through out the night. Plan to start backing down at 8 AM, 8-22-75.

Hope Unit 2-8 8-11-75

T.D. 9,539' PBTD; well shut in 24 hours.

Hope unit 2-8 8-12-75

T.D. 9,539' PBTD; pressure at 8 PM, 8-11-75, was 1,050 psi. Fluid level at 8 PM was 3,400'.

Runs	Flow level	Flow Pulled	Remarks
1	3,400	0	Fluid level
2	3,400	6 BBLS	15 minutes blow
3	4,500	6 BBLS	
4	5,000	8 BBLS	
5	7,000	4 BBLS	Wait for fluid rise 30 min.
6	6,500	2 BBLS	wait for fluid rise 30 min.
7	7,000	4 BBLS	
8	7,500	2 BBLS	Wait for fluid rise 30 min.
9	7,000	4 BBLS	

Made 36 barrels of fluid mostly water, wt. 8.6. Released unit at 3 PM, 8-11-75. Moving to Allrec 1-16. Well flared to burn pit.

Hope Unit 2-8 8-13-75

T.D. 9,539' PBTD; well flowed on 48/64" choke from 7 AM, 8-12-75, to 1:30 PM, 8-12-75, when well was shut in. Gas flowed through 1.5" orifice averaging 63 MCFD. No fluid recovered. SITP at 7 AM, 8-13-75, was 600 psi.

ADDITION TO THE 8-12-75 REPORT: Well flowed on 48/64" choke from 3 PM, 8-11-75, to 7 AM, 8-12-75. Gas flowed through 1.5" orifice averaging 63 MCFD. No fluid recovered.

Hope Unit 2-8 8-14-75

T.D. 9,539' PBTD; at 8 AM, 8-13-75, the tubing pressure was 600 psi. Made no fluid. Shut in till 2 PM, 8-13-75. Opened to treater at 2:30 PM, pressure dropped from 675 psi to 0 psi in 10 minutes through 48/64" choke.

Hope unit 2-8 8-15-75

T.D. 9,539' PBTD; no pressure at 8 AM, 8-14-75. Made 1' (18 barrels) fluid in 24 hours on a 48/64" choke. Cable wireline ran pressure bomb to 8,850 for buildup at 11 AM, 8-14-75. Well made 3 heads during 24 hour period ending at 7 AM, 8-14-75.

8-13-75	5 PM-6 PM	364 MCFPD
8-13-75	7 PM	295 MCFPD
8-14-75	4 AM	208 MCFPD

Well was dead rest of the 24 hours.

Hope Unit 2-8 8-6-75

T.D. 9,539' PBTD; rigged up Halco. Pumped 5,000 gallons gypsol with 1 gallon/minute Pen-5. Average injection rate 1.9 BPM. Average injection pressure, 3,400 psi, displaced with 9.5 barrels of formation water. Instant shut in pressure, 1,200 psi, 15 minutes shut in pressure, 1,150 psi. Shut well in at 4 PM, 8-5-75. Left overnight.

Hope Unit 2-8 8-7-75

T.D. 9,539' PBTD; shut in for 24 hours.

Hope Unit 2-8 8-8-75

T.D. 9,539' PBTD; pressure on tubing, 125 psi. Opened well up, but it would not flow. Rigged up Lewco's Swabbing Unit, and will start swabbing 8-9-75.

Hope Unit 2-8 8-9-75

T.D. 9,539' PBTD; SITP at 8 AM, 8-8-75 was 400 psi. Made 8 swab runs to pit and recovered 38 barrels fluid. Fluid levels as follows:

Run No.	Fluid Level
1	2,000'
2	2,000'
3	2,400'
4	3,000'
5	4,400'
6	4,500'
7	5,000'
8	4,800'

Shut down for repairs on swabbing unit at 2 PM.

Hope Unit 2-8 8-10-75

T.D. 9,539' PBTD; SITP at 8 AM, 8-9-75, was 700 psi. Made 13 swab runs to pit and recovered approximately 46 barrels fluid as follows:

RUN No.	Fluid Level	Feet of Fluid Pulled	Approx. BBLs.	Remarks
1	3,300'	1,000'	4	
2	3,300'	1,000'	4	30 minutes gas blow before run 3
3	3,800'	1,500'	6	
4	3,800'	1,500'	6	20 minutes gas blow before run 5
5	5,500'	1,500'	6	
6	6,500'	1,500'	6	
7	7,000'	1,000'	4	
8	7,000'	1,000'	4	
9	7,500'	500'	2	
10	7,900'	100'	1	waited 30 minutes before run 10
11	7,700'	300'	1	waited 30 minutes before run 11
12	7,700'	300'	1	waited 30 minutes before run 12
13	7,700'	300'	1	

Shut well in at 5 PM, 8-9-75.

Hope Unit 2-8 7-30-75

T.D. 9,539' PBTD; worked on pump. Drilled down 3 joints with power swivel. Ran in 9 joints without power swivel. Total, 289 joints. Strapped out with mill and scraper. Total, 9,058'. Picked up bridge plug and packer (Halliburton) and started in hole. SDON with 35 stands in hole.

CORRECTION TO THE REPORT OF 7-28-75: clean out to 277 joints. (Average joint length 31.3'). Note: Previous depths should be corrected using 31.3' average joint length.

Hope Unit 2-8 7-31-75

I.D. 9,539' PBTD; finished trip in hole with bridge plug and packer. Set BP at 9,008'. Laid down 12 joints 2-3/8" tubing, 10 joints between BP and packer and 2 joints in derrick. Set packer at 8,690' (138 stands, 1 single of 2-3/8", J-55, 4.7#, 8 round tubing). Removed BOP's and installed well head. hooked up flow line from well head to separator. Poured new rope socket and rigged up to swab. Shebester Workover Rig on location. BP and packer are Halliburton tools.

Hope 2-8 8-1-75

T.D. 9,539' PBTD; well head SIP, 200 psi. Bled well off in one minute. Went in hole with swab hitting fluid at 2,300'. Swabbed to 3,700', 6 runs. Shut down for 30 minutes. Went in hole with swab. Hit fluid at 3,000'. Swabbed down to 5,600' in 30 runs. Made 200 barrels fluid.

Hope unit 2-8 8-2-75

I.D. 9,539' PBTD; at 8 AM, 8-1-75, SITP was 850 psi. Bled off pressure in 5 minutes. Fluid level was at 1,400'. Made 25 swab runs down to 7,200'. Recovered 100 barrels fluid with density of 8.9 ppg. SDON.

Hope unit 2-8 8-3-75

T.D. 9,539' PBTD; At 8 AM, 8-2-75, SITP was 800 psi. Bled off pressure in 10 minutes. SICP, 500 psi. Made 30 runs. Recovered 75 barrels of fluid with density 8.8-8.9 ppg. Fluid level at 1,400' at 8 AM, 8-2-75. Swabbed down to approximately 8,500'. Had to wait about 30 minutes before cups would load.

Hope unit 2-8 8-4-75

T.D. 9,539' PBTD. shut down for Sunday, 8-3-75.

Hope Unit 2-8 8-5-75

T.D. 9,539' PBTD; pressure at 8 AM, 8-4-75, was 1,100 psi. Blew well down in 15 minutes. Put well through separator choke 48/64". Rigged down workover rig.

Hope unit 2-3 7-24-75

T.D. 9,539' PBD; rigged up BJ. Pumped down 1" tubing with 10 ppg saltwater at 1/2 BPM and 2,300 psi. Pumped 80 barrels. Hooked on to 1" tubing with overshot. Hooked on to overshot with blocks and pulled 1" tubing up 15'. Clamped same off and rigged up NOWSCO. Pulled 1" tubing. Tubing pulled good until reached last 1,500'. Tubing was scaled up so bad that had to back stripper all the way off and keep slacking off while pulling fast to get tubing out. Rigged down NOWSCO and unbolted well head. Picked up and removed same. Installed BOP. Screwed on 8' pup joint. Picked tubing string up to 38,000# and turned tubing to right. Pulled up to 40,000# and turned to right. Still could not get out of packer. Hooked up BJ and pumped 38 barrels 10 ppg saltwater. Well went on vacuum. Picked up to 40,000# and turned tubing to right. This time it came free from packer. Picked tubing up 10' and let well equalize. Finished rigging up floor. Hooked up pump lines. Shut down for night.

Hope unit 2-8 7-25-75

T.D. 9,539' PBD; finished trip out of hole with 2-7/8", 8 round, N-80, tubing. Laid down seal assembly. Picked up packer plucker. Went in hole. Plucked Baker Model "RD" packer. Unloaded 2-3/8" tubing and started laying down 2-7/8" tubing. Laid down 65 joints of 2-7/8" tubing. Shut down for night.

Hope unit 2-3 7-26-75

T.D. 9,539' PBD; finished laying down 2-7/8", N-80, 8 round, 6.5# tubing. SIP on well, 500 psi. Bled pressure off in 45 minutes. Changed rams in BOP from 2-7/8" to 2-3/8". Ran caliper on sand line. Caliper stopped at 7,400'. Pulled tight out of liner. Picked up and ran 70 joints of 2-3/8", J-55, 8 round, 4.70# tubing. Shut down for night.

Hope Unit 2-3 7-27-75

T.D. 9,539' PBD; pulled 35 stands of 2-3/8", J-55, 4.70#, tubing out of hole. Put on casing scraper and 4-1/8" mill. Ran 35 stands of 2-3/8" tubing. Hit 2 small bridges at 7,300' and 7,400'. Picked up 6'. Shut down for night after laying return line to mud tank. Bottom of tubing is at 7,600'.

Hope Unit 2-8 7-28-75

T.D. 9,539' PBD; operation shut down for Sunday.

Hope Unit 2-8 7-29-75

T.D. 9,539' PBD; snut in pressure 450 psi. Tried to blow well down but continued to pressure up. Pumped 10# NaCl water to kill well. Pumped 320 barrels of fresh water trying to circulate, but got no returns. Ran in 9 joints 2-3/8" tubing, working tubing at 7,971'. Pumped down 35 barrels water through tubing with no returns at 7,971'. Rigged up power swivel and rotating bowl. Drilled out scale at 7,971' with no returns. Set backswivel and ran 2-3/8" tubing (total of 266 joints). Hit bridge at 8,295'. Shut down for night.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 19 75, MAPCO, Hope Unit No. 2-8

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102

Phone 406/248-7406 Signed Agnis M. Model
Agent's title Geological Clerk & Secretary

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 8	11S	21E	2							
				8-26 thru	8-28:		T.D. 9,539; unable to recover packer and one joint 2-3/8" tubing at 8950.			
				8-29 thru	9-9:		Set another packer at 8308 and bridge plug at 8615' to isolate Mesaverde for testing. Well made water, condensate and gas.			
				9-10 thru	9-25:		Moved the bridge plug to 8308' and set packer at 7210' to isolate Mesaverde. Well made water, condensate and gas.			

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.
LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1975, MAPCO, Hope Unit No. 2-8
Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102 Signed [Signature]
Phone _____ Agent's title Geological Clerk & Secretary

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 8	11S	21E	2							
				9-26 thru	10-6					Flow testing well at very low rates and pressures.
				10-7						Moved packer to 7554' to isolate a short interval in the Mesaverde in an attempt to obtain water-free gas production. Subsequent gas rates varied from 150 to 250 MCFPD.
				10-8 thru	28:					Flow testing well.
										NOTE: A pump unit will be installed and all of the Wasatch-Mesaverde zones will be open to production so that flow testing with water pumped off the formation can be accomplished.

NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold; _____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

PI

Form approved.
Budget Bureau No. 42-R358.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit



LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 1975, MAPCO, Hope Unit No. 2-8

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102

Signed Agnes M. Model

Phone _____ Agent's title Geological Clerk & Secretary

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 8	11S	21E	2							
NOVEMBER REPORT:										
10-29 thru 11-25-75: A pump unit has been installed at the well while flow testing continues. A workover unit will be moved in as soon as available to place the well on pump and all zones opened so that a pumped off flow test can be accomplished.										
										NOV 26 1975

NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit

DEC 30 1975

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1975, MAPCO, Hope Unit No. 2-8

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102 Signed Agnes M. Model

Phone _____ Agent's title Geological Clerk & Secretary

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCTION	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 8	11S	21E	2							A pumping unit has been installed and all zones are open to production. Flow testing well with the pumping unit running to keep water pumped off the formation was begun December 30, 1975.

Note.—There were _____ no _____ runs or sales of oil; _____ no _____ M cu. ft. of gas sold;

_____ no _____ runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1976, MAPCO, Hope Unit No. 2-8

Agent's address Suite 320 Plaza West Company MAPCO Inc.
1537 Avenue D, Billings, Montana 59102 Signed Agnes M. Model

Phone _____ Agent's title Geological Clerk & Secretary

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCTION	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (in thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SE Sec. 8	11S	21E	2							
<p>JANUARY REPORT:</p> <p>A combination of problems with weather, surface production equipment and pumping unit have prevented further testing of this well. Surface production facilities are being replaced and a sales contract is being negotiated with Mountain Fuel. Barring further equipment problems, this well should be on production in the month of February. However, if it is determined that gas compression is required to produce the well into Mountain Fuel's line, there will be a delay while obtaining compression equipment.</p> <p align="right">January 26, 1976</p>										

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
LEASE NUMBER U-8345
UNIT Hope Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 1976, MAPCO, HOPE UNIT NO. 2-8

Agent's address Suite 320 Plaza West Company MPACO Inc.
1537 Avenue D, Billings, Montana 59102 Signed Agnes M. Model

Phone _____ Agent's title Geological Clerk & Secretary

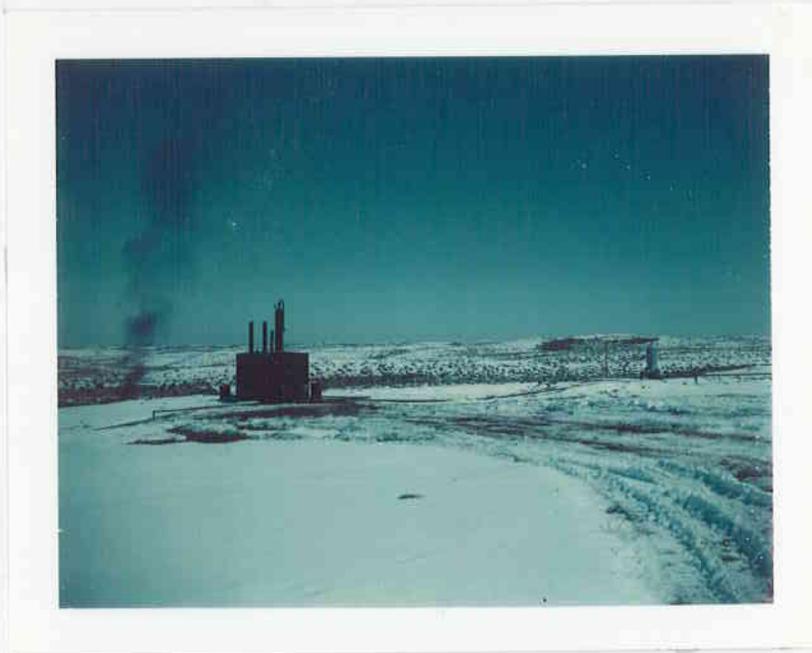
SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SE Sec. 8	11S	21E	2						=	
FEBRUARY REPORT:										
<p>Efforts continued to place this well on continuous production to facilitate accurate testing of this well. From January 25 through February 12, 1976, various mechanical problems with the pumping unit were encountered and overcome. A new separator-dehydration unit was installed, and the well was put on test.</p> <p>Beginning on February 13, various testing was done for the next 12 days in an attempt to determine if the well would produce against the estimated volume pressure of 550#. However, the well was actually hooked up to the line. Flow rates ranging from 0 to 1.5 MCFPD at various back pressures were measured during this time. A sales contract for this gas has been executed and work is underway to connect the well to the sales line.</p> <p style="text-align: right;">February 27, 1976</p>										

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

MAPCO INC.
WELL NO. HOPE UNIT 2-8

PICTURE TAKEN: 3/10/76



UTAH STATE SEAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 9-329 Rev. Feb 76
OMB 42-RO356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 8345
Hope 2-8
Communitization Agreement No. _____
Field Name _____
Unit Name _____
Participating Area _____
County Uintah State Utah
Operator MAPCO Inc.

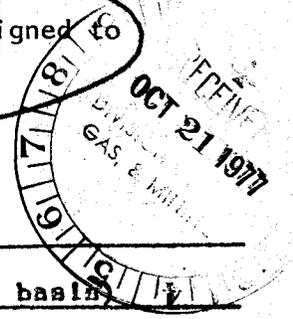
Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of August, 19 77

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (1)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	Barrels of Oil	MCF of Gas	Barrels of Water	Remarks
2	8 NW SE	11 S	21 E	GS1	0	0	0	0	<p>Move in rig to pull rods, pump & tubing. Pump was stuck. Backed off rods. Tried to release tubing anchor but couldn't release it or jar it loose. Fish left in hole: 2 jts. 2-7/8" Nu-lock, 1 jt. 2-7/8" 8 rd., seating nipple, and 0 is anchor catcher with pump still in seating nipple. Ran 27 5 jts. 2-3/8", EUE, 8 rd and land at 8707'. Top of fish at 8755'. Tubing had eleven collars with a 1/16" hole spread throughout the tubing string.</p> <p>All rights and interests in this well have been assigned to Gilman Hill, effective as of July 1, 1977.</p>



*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

Oil & Condensate (BBLs)

Gas (MCF)

Water (BBLs)

- *On hand, Start of Month
- *Produced
- *Sold
- *Spilled or Lost
- *Flared or Vented
- *Used on Lease
- *Injected
- *Surface Pits
- *Other (Identify)
- *On hand, End of Month
- *API Gravity/BTU Content

_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
0	0	0
_____	_____	XXXXXXXXXXXXXXXXXXXX
_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXXXX
_____	_____	XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	_____
_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX

Authorized Signature: Kathy Sturgeon
for A. W. Model
Title: Geological Clerk & Secretary

Suite 320 Plaza West, 1537 Ave. D
Address: Billings, Montana 59102

January 7, 1980

Gilman A. Hill
6200 Plateau Drive
Englewood, Colorado 80111

Re: Well No. Hope Unit #1-8
Sec. 8, T. 11S, R. 21E.,
Uintah County, Utah

Dear Sir:

It has been brought to the attention of this Division that the above referenced well has recently been reworked and may possibly be in violation of Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

If work has taken place, it is necessary to file a Sundry Notice with this office describing the nature of that work. After spudding in, you are required to provide legible copies of all subsequent reports filed with the USGS along with Form OGC-5 and the Monthly Oil & Gas Conservation Levy Report.

Your cooperation in straightening out this matter will be appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

MTM/btm

cc

111

GILMAN A. HILL

PETROLEUM GEOLOGIST
6200 PLATEAU DRIVE
ENGLEWOOD, COLORADO 80111
PHONE 771-1101

January 24, 1980

Mr. Michael T. Minder
Geological Engineer
Division of Oil, Gas and Mining
Department of Natural Resources
1588 West North Temple
Salt Lake City, Utah 84116

Re: Well No. Hope Unit #2-8
Sec. 8, T 11S, R 21E,
Uintah County, Utah

Dear Mr. Minder:

With reference to your letter dated January 7, 1980, please be advised that there has been no work of any kind recently performed on the above-referenced well. The only work on or near the well site has been the moving of a condensate storage tank a short distance to facilitate well operations. I trust that this will adequately satisfy your request for information.

Very truly yours,

Roy A. Webley

RAW/mm

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

11

5. LEASE DESIGNATION AND SERIAL NO.	U-8345
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	PGW
	092109
7. UNIT AGREEMENT NAME	HOPE
8. FARM OR LEASE NAME	
9. WELL NO.	2-8
10. FIELD AND POOL, OR WILDCAT	Unnamed
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	8-11S-21E
12. COUNTY OR PARISH	Uintah
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.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR: Gilman A. Hill SEP 14 1987

3. ADDRESS OF OPERATOR: 7128 S. Poplar Lane, Englewood, Colorado 80112
DIVISION OF OIL GAS & MINING

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1873' FWL & 2147' FSL (NE $\frac{1}{4}$ SW $\frac{1}{4}$)
Sec. 8-11S-21E

14. PERMIT NO.: 43-047-30189

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
5476' K.B.

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

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

Killed well w/ 200 Bbls 10# brine. Pump 30 sx plug displaced to 6564'. (Top of 5" Liner) Plug migrated to 7028'. Pump 100 sx plug from 7028 to 6217'. Displace hole w/ 150 Bbls 9.1# fresh water gel mud. Pump 44 sx plug from 2120' to 1920' in 7" csg. Pmp 38 sx plug in annulus of 7" and 9-5/8" casing from 2120' to 1920'. Set 10 sx plug at surface in annulus from 0-50'. Set 19 sx plug in 7" csg. from 0-100'. Cut off wellhead. Set dryhole marker. fill in celler. Operations took place 7/30/87 to 8/4/87. Well plugged due to uneconomical production. Location to be bladed and reseeded.

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

SIGNED: [Signature] ~~XXXX~~ for Gilman A. Hill DATE: 9-11-86

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

DATE: 9-17-87
BY: [Signature]