

FILE NOTATIONS

Entered in NID File ✓

Entered On S R Sheet _____

Location Map Pinned ✓Card Indexed ✓

IWR for State or Fee Land _____

Checked by PAW

Copy No: District Office _____

Approval Letter 7-7-66

Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 8-9-66

Location Inspected _____

OW ✓ WW _____ TA _____

Bond _____

GW _____ OS _____ PA _____

State or Fee Land _____

LOGS FILED

Driller's Log 8-19-66Electric Logs (No.) 3E _____ I _____ E-I ✓ GR _____ GRN ✓ Micro _____

Lat _____ Mi-L _____ Sonic _____

acoustology

Case # 109-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
Monsanto Company

3. ADDRESS OF OPERATOR
900 Patterson Building, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
SW NE or 1900' EBL & 1930' EST. Sec. 5.

At proposed prod. zone
Vertical Hole

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
5 miles south of Islay Trading Post

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
660

16. NO. OF ACRES IN LEASE
2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1940'

19. PROPOSED DEPTH
5700

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4830 GR (EST.)

22. APPROX. DATE WORK WILL START*
July 11, 1966

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	13 3/8"	43	125'	150 ex.
12 1/2"	8 5/8"	24	1400'	165 ex.

Production casing, if run, shall be 5 1/2" OD 15.5# J-55 set through the pay and sufficiently cemented to confine all oil, gas, and water bearing strata.

Well location survey plate will be mailed by the Surveyor to the USGS District Office in Farmington, New Mexico and the Oil & Gas Conservation Commission in Salt Lake City, Utah.

*C-R
F-L*

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

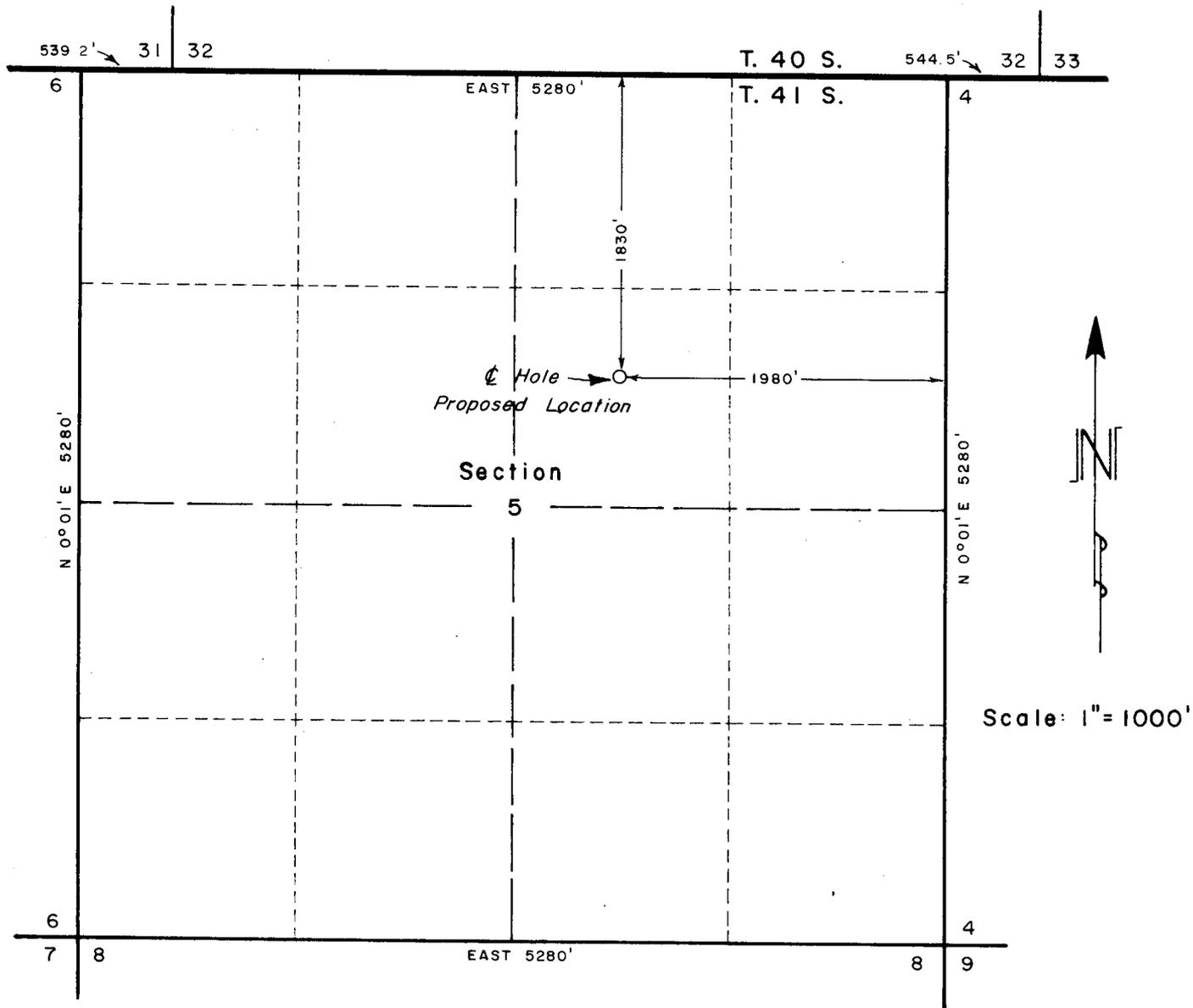
24. SIGNED *[Signature]* TITLE **District Engineer** DATE **July 7, 1966**

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

15



WELL LOCATION: Monsanto Company - South Ismay No. 4

Located 1830 feet South of the North line and 1980 feet West of the East line of Section 5,
 Township 41 South, Range 26 East, Salt Lake Base & Meridian.
 San Juan Co., Utah
 Existing ground elevation determined at 4798 feet based on U.S.G.S.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Frederick H. Reed

FREDERICK H. REED
 Registered Land Surveyor
 State of Utah # 2689



MONSANTO COMPANY Denver, Colorado	
WELL LOCATION PLAT Sec. 5 - T. 41 S. - R. 26 E. San Juan Co., Utah	
CLARK-REED & ASSOC. Durango, Colorado	DATE: July 7, 1966 FILE NO: 66059

STATE OF UTAH
DEPARTMENTAL MEMORANDUM

From
DEPARTMENT

DATE:

DIVISION

FILE:

To
DEPARTMENT

SUBJECT:

DIVISION

July 7, 1966

Monsanto Company
900 Patterson Building
Denver, Colorado 80202

Re: Well No. South Ismay #4,
Sec. 5, T. 41 S., R. 26 E.,
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted in accordance with the Order issued in Cause No. 109-1, on March 11, 1965, wherein said well is designated as the well for Drilling Unit No. 6. This approval is conditional upon a surveyor's plat being furnished this office in accordance with Rule C-4(a).

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. BURGHELL, Chief Petroleum Engineer
HOME: 277-2890 - Salt Lake City, Utah
OFFICE: 328-5771 - 328-5772 - 328-5773

This approval terminates within 90 days if the well has not been spudded-in within said period. Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly accessible near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE DIRECTOR

GW/ah

cc: P. T. McGrath, District Engineer
U. S. Geological Survey
Farmington, New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

LAND OFFICE Farmington, N. Mexico
LEASE NUMBER 14-20-603-708
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field McElmo Mesa

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1966,

Agent's address 900 Patterson Building Company Monsanto Company
Denver, Colorado 80202 Signed J. MURPHY, JR.

Phone 222-5641 Agent's title District Production Supt.

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)
<u>SO. ISMAY</u>										
Sec. 5 NE SE	41S	26E	3	20	56,364	46	68,482		0	
Sec. 5 SW NE	41S	26E	4		Drilling at 5333'.					

NOTE.—There were 55,722 runs or sales of oil; 0 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.

FORM OGCC-8-X
FILE IN QUADRUPLICATE

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
348 EAST SOUTH TEMPLE
SUITE 301
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number So. Ismay No. 4
Operator Monsanto Company Address 900 Patterson Bldg.
Denver, Colorado Phone 222-5641
P. O. Box 2146
Contractor Cactus Drilling Corporation Address Farmington, N.Mex. Phone 325-6631
Location SW 1/4 NE 1/4 Sec. 5 T.41S N R.26 E San Juan County, Utah.
S W

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. 950	1190 (Nava,jo)	Not Measured	Fresh
2. 2682	2745 (DeChelley)	Not Measured	Salty
3.			
4.			
5.			

(Continued on reverse side if necessary)

Formation Tops:

Hermosa	4530	Bottom Ismay	5604
Upper Ismay	5446	Desert Creek	5648
Lower Ismay	5543		

Remarks:

- NOTE:
- (a) Upon diminishing supply of forms, please inform the Commission.
 - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form).
 - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-700

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Lonejo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

30. Tenny

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

Welljo Mesa

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

Sec. 5, T41S, R26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

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

Homestead Company

3. ADDRESS OF OPERATOR

900 Patterson Building, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

ON NW of 1230' SW, 1930' NW.

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

July 7, 1966

15. DATE SPUNDED

7/12/66

16. DATE T.D. REACHED

8/4/66

17. DATE COMPL. (Ready to prod.)

8/9/66

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

4314 ON, 4303 STD

19. ELEV. CASINGHEAD

4313

20. TOTAL DEPTH, MD & TVD

5575

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

5632

22. IF MULTIPLE COMPL., HOW MANY*

1

23. INTERVALS DRILLED BY

5575

ROTARY TOOLS

None

CABLE TOOLS

None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Tenny 546-5604

26. TYPE ELECTRIC AND OTHER LOGS RUN

Lone Wells Induction Electrolog, Acoustilog & Gamma Ray-Neutron

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	43.0	132	17 1/2"	140 sacks reg. w/2% CaCl	None
9 5/8"	26.0	1443	12 1/2"	170 sacks reg. w/2% CaCl	None
5 1/2"	15.5	5365	7 7/8"	30 sacks 50/50 Pozmix 60 sacks w/Latex	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None							

31. PERFORATION RECORD (Interval, size and number)

5503-5514 Lone Wells 100 w/2 shots Ft.

5547-5555 Lone Wells 100 w/2 shots Ft.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5503-5514	1000 gal. reg. acid
5547-5555	1000 gal. reg. acid

33.*

PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
3/1/66	Flowing	Producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/10/66	15	1/2	→	750	638	65	951
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
360	1150	→	1000	1,021	102	45.5	

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

Vented

TEST WITNESSED BY

J. E. Guthrie

35. LIST OF ATTACHMENTS

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

SIGNED

[Signature]

TITLE District Engineer

DATE August 17, 1966

*(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 38, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Stacks 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.)

FORMATION		TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS	
DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	COROSITY AND CONTENTS THEREOF: CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MBAS. DEPTH	TRUE VERT. DEPTH
LARRY	37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	5592	5600	DATE - August 5, 1956 - Marmon Core No. 1 - Recovered 46 1/2' 2' Dark gray. Hard shale 2 1/2' Dark brown dense, very tight, ls. 33' ls, Good vuggy porosity, oil sat. 5' ls, few small scattered vugs, oil sat. 5' ls, PP vugs blees oil 1' Dolomite and anky. 1 1/2' ls, lt. gray., very little PP & N.S.	Marajo DeChalley Marmon Upper Insay Lower Insay Desert Creek	950 2682 4530 9446 5543 5643	Same " " " "
		5547	5607				

AUG 19 1956

Handwritten scribble

Monsanto

C O M P A N Y

Handwritten scribble

HYDROCARBONS & POLYMERS DIVISION

900 Patterson Building
Denver, Colorado 80202
(303) AComa 2-5641

September 13, 1966

The State of Utah
Oil & Gas Conservation Commission
348 East South Temple
Suite 301
Salt Lake City, Utah 84111

Attention: Mr. Cleon B. Feight
Executive Director

Re: Gas-Oil Ratio Test
Monsanto-South Ismay No. 4
McElmo Mesa Pool
San Juan County, Utah

Gentlemen:

In compliance with Rule C-19, the following is the gas-oil ratio test on the recently completed South Ismay No. 4.

Date:	September 8, 1966
Test Time:	24 Hours - Flowing ✓
BOPD:	1,002 ✓
MCFPD:	740
GOR:	739
Percent Water:	9%
Flowing Tubing Pressure:	340 psi
Flowing Casing Pressure:	1,025 psi

Very truly yours,

MONSANTO COMPANY

Handwritten signature of J. Murphy, Jr.
J. Murphy, Jr.

JM:rp

Handwritten scribble

September 15, 1966

Monsanto Company
900 Patterson Building
Denver, Colorado

Re: Well No. South Ismay #4,
Sec. 5, T. 41 S., R. 26 E.,
San Juan County, Utah

Month of August, 1966

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the above mentioned month (s), for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-1b (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

ANNETTE R. HANSEN
RECORDS CLERK

arh

Enclosures: Forms

Monsanto

C O M P A N Y

HYDROCARBONS & POLYMERS DIVISION

900 Patterson Building
Denver, Colorado 80202
(303) ACom 2-5641

October 31, 1966

The State of Utah
Oil & Gas Conservation Commission
346 E. South Temple
Salt Lake City, Utah 84111

Attention: Mr. Paul Burchell

Gentlemen:

This letter confirms our telephone conversation of October 28, 1966, in regard to casing in San Juan County, Utah.

It is the practice in this area to set an intermediate 8 5/8" string through the Navajo sand only when the hydrostatic head was not sufficient to contain a water flow. In wells where intermediate strings were not required and the well was a producer, operators have circulated good quality mud prior to cementing the long string. This, in my opinion, prevents any cross flow from the Navajo or any other water sand in the well bore after the production casing is cemented.

In the case of dry holes, cement plugs are set across every water bearing formation.

Very truly yours,

MONSANTO COMPANY



E. M. Scholl

EMS:rp

2

November 1, 1966

Mr. Phil McGrath
United States Geological Survey
P. O. Box 959
Farmington, New Mexico

Dear Phil,

Enclosed please find a copy of a letter from Mr. E. M. Schell with Monsanto Company concerning his opinion on setting intermediate string in the McElmo Mesa Area.

In my opinion, I tend to agree with his comments. However, if any lost circulation zones are present below the Navajo Formation, then this practice would not be considered acceptable. In any event, it would be appreciated if you could give me the benefit of your thinking with regard to this matter.

Hope to see you here in Salt Lake City, on November 10, 1966, with regard to the Boundary Butte spacing hearing.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:kh

CC: U. S. Geological Survey
Jerry W. Long, District Engineer
Box 1809
Durango, Colorado

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

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.	21-000708
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	Navajo
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME	South Ismay
9. WELL NO.	4 (09085)
10. FIELD AND POOL, OR WILDCAT	McElmo Mesa
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	5-41S-26E
12. COUNTY OR PARISH	San Juan
13. STATE	Utah

1. OIL WELL GAS WELL OTHER Shut-in Oil Well

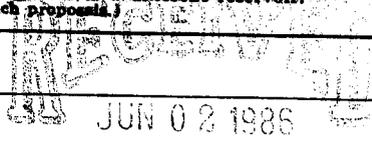
2. NAME OF OPERATOR
BHP Petroleum Company Inc.

3. ADDRESS OF OPERATOR
5613 DTC Parkway, Suite 600, Englewood, CO 80111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
Sec. 5-41S-26E

14. PERMIT NO.
4303720087

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



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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Name Change of Operator</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

Monsanto Oil Company acquired by BHP Petroleum Company Inc.

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

SIGNED Bernard A. Wirth TITLE Regional Land Manager DATE May 30, 1986
Bernard A. Wirth

(This space for Federal or State office use)

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

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

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

pow

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 WDW

2. NAME OF OPERATOR
Cross Creek Corporation

3. ADDRESS OF OPERATOR
P. O. Box 447 Farmington, N.M. 87499-0447

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
#1-660' FNL & 660' FEL/WDW
#3-1847' FSL & 895' FEL/POW

14. PERMIT NO. 13.031.00087

15. ELEVATIONS (Show whether OF, RT, OR, etc.)
Acct #395

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-0708

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo **090107**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
South Ismay

9. WELL NO.
1, 3, 4, 5

10. FIELD AND POOL, OR WILDCAT
McElmo Mesa

11. SEC., T., R., M., OR BLK. AND SUBVY OR ABBA
5-41S-26E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) Change of operator <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.)

#4-1833' FNL & 1968' FEL/OSI
#5-1951' FSL & 1983' FWL/OSI
Formerly operated by: BHP Petroleum (Americas) Inc.
Suite 600
5613 DTC Parkway
Englewood, Colorado 80111
Now operated by: Cross Creek Corporation
P.O. Box 447
Farmington, N.M. 87499-0447

EFF. 7/20/87

RECEIVED
AUG 19 1987
DIVISION OF OIL
GAS & MINING

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

SIGNED [Signature] TITLE Vice President DATE 8-17-87

(This space for Federal or State office use)

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

7

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Cross Creek Corporation

3. ADDRESS OF OPERATOR
P.O. Box 1957 Duncan, Oklahoma 73534

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 1833 FNL 1968 FEL
At proposed prod. zone

14. API NO.
43-037-20087

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

5. LEASE DESIGNATION & SERIAL NO.
14-20-603-708

6. IF INDIAN ALLOTTEE OR TRIBE NAME
Navajo Tribal Lease
UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
South Ismay

9. WELL NO.
4

10. FIELD AND POOL, OR WILDCAT
McElmo Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SWNE
5,41S,26E

12. COUNTY
San Juan

13. STATE
Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other) Annual Report of Shutin Well

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON
CHANGE PLANS

APPROX. DATE WORK WILL START _____

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) _____
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

DATE OF COMPLETION _____

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.)

Water oil ratio requires another water disposal well which will be Navajo "A" #1 or #3 which needs repair at this time.

* Must be accompanied by a cement verification report.

OIL AND GAS	
DPN	RIF
JRS	CLH <input checked="" type="checkbox"/>
DTS	SLS
2-TAS	
3-	MICROFILM <input checked="" type="checkbox"/>
4-	FILE

18. I hereby certify that the foregoing is true and correct.
SIGNED Derma Hand TITLE Production Clerk DATE 1/12/90

(This space for Federal or State office use)

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.
14-20-603-708

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

1. OIL WELL GAS WELL OTHER Stock Tank Vapor Test DEC 21 1990

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Cross Creek Corporation

DIVISION OF
OIL, GAS & MINING

8. FARM OR LEASE NAME
South Ismay

3. ADDRESS OF OPERATOR
P.O. Box 1957, Duncan, Ok. 73534-1957

9. WELL NO.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

Cross Creek Corp.

10. FIELD AND POOL, OR WILDCAT
McElmo mesa

43-037-20072 South Ismay #3 - POW

11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA
5, 41s, 26e

43-037-20134 South Ismay #5 - SOW

(P. GR., etc.)

12. COUNTY

13. STATE

43-037-20037 South Ismay #4 - SOW

San Juan

UT.

Reference of Notice, Report or Other Data

SUBSEQUENT REPORT OF:

43-037-16269 South Ismay #1 - WIW

WATER SHUT-OFF

REPAIRING WELL

43-037-20117 Navajo A-1 - WDW

FRACTURE TREATMENT

ALTERING CASING

43-037-20164 Navajo A-3 - WIW

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Stock Tank Vapor Test

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

DATE OF COMPLETION 12-17-90

all pertinent details, and give pertinent dates, including estimated date of locations and measured and true vertical depths for all markers and zones

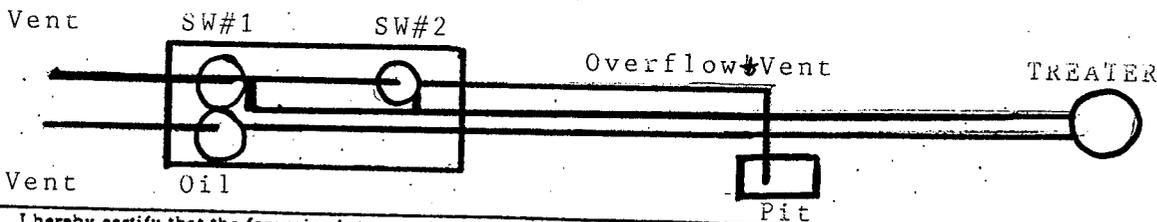
pertinent to this work.)

* Must be accompanied by a cement verification report.

Kiva Measuring, Inc.
49 Road 5500
Bloomfield, N.M. 6322762

Gastec Precision Gas Protector System
Gas Analysis H2S
Extra Low RANGE 10 to 120 PPM

Produced Water Tank #2 21 PPM
Produced Water Tank #1 13 PPM
Produced Oil Tank 3 PPM



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

SIGNED Darrell Hand TITLE Clerk

DATE 12-19-90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY: _____

DATE _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION & SERIAL NO. 14-20-603-708
1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal.
2. NAME OF OPERATOR Cross Creek Corporation		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 1957, Duncan, Ok. 73534		8. FARM OR LEASE NAME South Ismay/Navajo 'A'
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1833 FNL 1968 FEL At proposed prod. zone		9. WELL NO. #4
14. API NO. 4303720087 <i>SOW</i>		10. FIELD AND POOL, OR WILDCAT McElmo Mesa
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SWNE 5, 41S, 26E
		12. COUNTY San Juan
		13. STATE UT

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) _____ Annual Report of Shutin Wells APPROX. DATE WORK WILL START _____	WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> (Other) _____ (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) DATE OF COMPLETION _____
PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/>

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

* Must be accompanied by a cement verification report.

Water oil ratio requires another water disposal well which will be Navajo 'A' 1 or 3.

RECEIVED

MAR 14 1991

DIVISION OF
OIL GAS & MINING

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

SIGNED *J. Orma Hand* TITLE clerk DATE 3/12/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.
14-20-603-708

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
South Ismay/Navajo 'A'

9. WELL NO.
#4

10. FIELD AND POOL, OR WILDCAT
McElmo Mesa

11. SEC., T., R., AL. OR BLK. AND SURVEY OR AREA
5,41S,26E

12. COUNTY
San Juan

13. STATE
Ut

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 Annual Report of Shutin Wells

2. NAME OF OPERATOR
Cross Creek Corporation

3. ADDRESS OF OPERATOR
P.O. Box 1957 Duncan, Ok. 73534

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

14. API NO.
43-037-20087

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

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) _____

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON

CHANGE PLANS

Annual Report of Shutin Wells

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.)

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION _____

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.)

* Must be accompanied by a cement verification report.

Water to oil ratio demands a disposal well

RECEIVED

JAN 21 1992

DIVISION OF
OIL GAS & MINING

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

SIGNED A. Orma. Hand TITLE Clerk DATE 1-16-92

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

RECEIVED DEC 09 1992

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

14-20-603-708

6. If Indian, Allottee or Tribe Name:

Navajo Tribal

7. Unit Agreement Name:

8. Well Name and Number:

South Ismay #4

9. API Well Number:

43-037-20087

10. Field and Pool, or Wildcat:

McElmo Mesa

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:

Cross Creek Corporation

3. Address and Telephone Number:

P.O. Box 1957 Duncan, Ok. 73534 405-255-8118

4. Location of Well

Footages: 1830' s/n 1980 w/e

QQ, Sec., T., R., M.: SW NE SEC. 5, T 41S R 26E

County: San Juan

State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment* | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |

Other Annual Report of Shut-in Wells

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

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

Temporarily shut in until additional water disposal well is repaired.

RECEIVED

DEC 14 1992

DIVISION OF
OIL, GAS & MINING

13.

Name & Signature: *S. J. Anderson*

Title: *Supervisor*

Date: *12-11-92*

(This space for State use only)

PHONE CONVERSATION DOCUMENTATION FORM

This is the original form or a copy

Route this form to:

WELL FILE _____

SUSPENSE

OTHER

Section _____ Township _____ Range _____

Return date _____

OPERATOR FILE

API number _____

To: initials _____

CC: JRB

Date of phone call: 2-2-00

Time: 10:47 AM

DOG M employee (name) KRISTEN RISBECK

Initiated call?

Spoke with:

Name BERTHA SPENCER

Initiated call?

of (company/organization) BIA/WINDOW ROCK AZ

Phone no. (520) 871-5938

Topic of conversation: 1420603708 LEASE; WHO IS THE OPERATOR OF THE LEASE?

Highlights of conversation: PER MS. SPENCER OF THE BIA, THE TRIBE DENIED KRYSTAL ENERGY FROM TAKING OVER THE LEASE. CROSS CREEK IS NO LONGER THE OPERATOR DUE TO NOT INCREASING THEIR BOND PER THE BIA.

THE OPERATOR (CURRENT LESSEE) RECOGNIZED BY THE BIA IS AMOCO PRODUCTION COMPANY. AMOCO IS NOW RESPONSIBLE FOR THE ABOVE LEASE.

MS. SPENCER INFORMED ME THAT AMOCO IS PLANNING ON PLUGGING THE WELLS. I REQUESTED SOME FORM OF DOCUMENTATION REGARDING THE INFORMATION; SHE WILL FAX A LETTER SHE SENT TO KRYSTAL ENERGY (SEE ATTACHED)

AUTOMATIC TELEFAX

DATE: February 3, 2000

LOCATION: BUREAU OF INDIAN AFFAIRS
Navajo Area Office (Mail Code: 543)
Window Rock, Arizona 86515

INFORMATION OR ASSISTANCE NO.: (520) 871-5938

NUMBER OF DOCUMENTS (Including cover sheet): 2

TO THE ATTENTION OF: Kirsten Risbeck - Utah Oil & Gas Mining

Office Phone Number: (801) 538-5281

TELEFAX NO.: (801) 359-3940

FROM: Bertha Spencer, Realty Specialist - Minerals & Mining Section

Office Phone Number: (520) 871-5938

Telefax Number: (520) 871-5943

MESSAGE OR INSTRUCTIONS: Attached is a copy of the letter that went to Krystal Energy. If you have any questions, you can call me at the above number.

FAXED BY: B. Spencer TIME: 11:00 hr

XXXXXXXXXXXXXX
NAVAJO REGION
P. O. BOX 1060
Gallup, New Mexico 87305-1060

RRES/543

DEC 08 1999

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Bruce Nicholson
Krystal Energy
P.O. Box 3897
Window Rock, Arizona 86515

Dear Mr. Nicholson:

We are returning the proposed Assignment of Mining Lease for Navajo Tribal Oil and Gas Lease No. 14-20-603-708 between Amoco Production Company and Krystal Energy, Inc. and the proposed Assignment of Oil and Gas Lease Operating Rights between Cross Creek Corporation and Krystal Energy, Inc., without action.

By letter dated October 20, 1999 from the Navajo Nation Minerals Department, we have been advised not to process the above proposed assignments for approval at this time because Krystal Energy is currently not eligible to obtain a lease under the Navajo Nation law and due to other concerns of the Navajo Nation.

Therefore, upon receipt of this notice, you are directed to immediately cease all operation on the above lease. By a copy of this letter, the current lessee, Amoco Production Company, is instructed to immediately take over operation of the subject lease.

If you have any questions, please contact Ms. Bertha Spencer, Realty Specialist at (520) 871-5938 or Bimal Shrestha of Navajo Nation Minerals Department office at (520) 871-6587

Sincerely,

GENNI DENETSONE

Regional Director

Enclosures

cc: Amoco Production Company, POB 800, Denver, CO. 80222 - CERTIFIED MAIL
Navajo Nation Minerals Department
Bureau of Land Management, Attn: Steve Mason, Farmington Field Office
Linda Taylor, SH/RES

RECEIVED
stick the gummed strip in the
... of the
... of the



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

FILED
3/3/2000

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

43-037-20087

March 3, 2000

Ms. Bertha Spencer
Bureau of Indian Affairs
Navajo Area Office (Mail Code: 543)
Window Rock, Arizona 86515

Re: Oil & Gas Operations on Lease No. 14-20-603-708

Dear Ms. Spencer:

It was recently brought to my attention that the B.I.A. has returned, without action, a proposed Assignment of Mining Lease for the above referenced Navajo Tribal Oil and Gas Lease between Amoco Production Company and Krystal Energy, Inc., along with a proposed Assignment of Oil and Gas Lease Operating Rights between Cross Creek Corporation and Krystal Energy, Inc. The Bureau has also instructed Amoco, as current lessee, to immediately take over operation of the lease.

The Division of Oil, Gas and Mining intends to contact Amoco to request that they commence submitting various production and status reports for wells located on this lease. Our files, however, do not contain any documentation regarding lease assignments, or of Amoco's involvement with this lease. I am therefore writing to request, if possible, that copies be sent to the Division of any B.I.A. records pertaining to the following matters:

1. Documents that identify Amoco as the current lessee;
2. Documents that show which wells Amoco is responsible for (our records indicate that there are three oil wells and three water disposal wells located in this lease area);
3. Any monthly production and injection reports pertaining to the wells in this lease that are in your possession or readily available to you for the reporting periods of April 1999 to present.

Page 2

Ms. Bertha Spencer

Lease No. 14-20-603-708

March 3, 2000

Your assistance in obtaining copies of these records will be greatly appreciated. If there are costs or complications pertaining to this request, please feel free to contact me at 801-538-5275, or by email at dstaley@state.ut.us. Thank you very much.

Sincerely,



Don Staley
Information Services Manager
Oil and Gas

cc: J.R. Baza
K.D. Risbeck
Well Files:

South Ismay 1 (API 43-037-16269) 5-41S-26E
South Ismay 3 (API 43-037-20072) 5-41S-26E
South Ismay 4 (API 43-037-20087) 5-41S-26E
South Ismay 5 (API 43-037-20134) 5-41S-26E
Navajo A-1 (API 43-037-20117) 5-41S-26E
Navajo A-3 (API 43-037-20164) 5-41S-26E

Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

5. Lease Serial No. 14-20-603-708
6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
7. If Unit or CA/Agreement Name and/or No.
8. Well Name and No. SOUTH ISMAY 4
9. API Well No. 4903720087
10. Field and Pool, or Exploratory Area MC ELMO MESA
11. County or Parish, and State SAN JUAN UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well Oil Well Gas Well Other
2. Name of Operator AMOCO PRODUCTION COMPANY
3a. Address P.O. BOX 3092 HOUSTON, TX 77079
3b. Phone No. (include area code) 281.366.4491
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980FEL 1830FNL 5-41S-26E

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

Table with columns TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for Notice of Intent, Subsequent Report, Final Abandonment Notice, Acidize, Alter Casing, Casing Repair, Change Plans, Convert to Injection, Deepen, Fracture Treat, New Construction, Plug and Abandon, Plug Back, Production (Start/Resume), Reclamation, Recomplete, Temporarily Abandon, Water Disposal, Water Shut-Off, Well Integrity, Other.

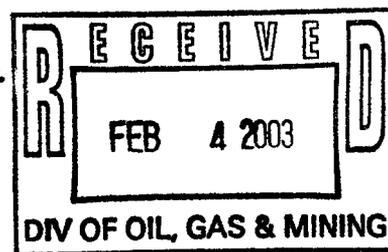
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

PLEASE SEE ATTACHED REPORT FOR COMPLETE PLUGGING OPERATIONS.

ENTERED AFMSS

FEB 4 2003

Approved as to plugging of the well bore. Liability under bond is retained until surface restoration is completed.



BY [Signature]

Electronic Submission #2031 verified by the BLM Well Information System for AMOCO PRODUCTION COMPANY Sent to the Farmington Field Office Committed to AFMSS for processing by Maurice Johnson on 11/24/2000

Name (Printed/Typed) MARY CORLEY Title SUBMITTING CONTACT
Signature Date 11/21/2000

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Title EPTED FOR RECORD
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office NOV 27 2000

FARMINGTON COPY

**P&A OPERATION
CEMENT SERVICE REPORT**

WELL NAME: SOUTH ISMAY #4

TOTAL PLUGS SET: 5

DATE STARTED: 11-06-00

TOTAL SACKS USED: 292 SX

DATE COMPLETED: 11-14-00

BLM WITNESS: H. LUHAN
OPERATOR WITNESS: N/A

MOL AND RU RIG AND PLUGGING EQUIPMENT. UNSEAT PUMP AND HOT OIL RODS AND TBG. POH AND LD 211- 7/8" AND 21- 1" RODS. ND WELLHEAD AND NU BOP. RELEASE ANCHOR AND STRAP OUT OF HOLE WITH 5532.96' OF 2 7/8" TBG. RIH WITH WIRELINE GAUGE RING TO 5450'. POH. RIH WITH WIRELINE CIBP AND SET AT 5440'. POH. RIH OPEN ENDED WITH TBG AND TAG CIBP.

PLUG #1 (ISMAY, 5330' - 5440'),

CIRCULATED HOLE CLEAN WITH WATER. PRESSURE TESTED CSG TO 500 PSI AND HAD SLOW LEAK OFF. BALANCED 15 SX CL. G CEMENT PLUG ON TOP OF CIBP. POH.

PLUG #2 (HERMOSA, 4206' - 4590'),

RIH WITH WIRELINE AND PERFORATED SQUEEZE HOLES AT 4590'. POH. RIH AND SET 5 1/2" RETAINER AT 4531'. ATTEMPTED TO PRESSURE TEST CSG TO 500 PSI BUT LEAKED OFF. ESTABLISHED INJECTION RATE INTO PERFORATIONS WITH WATER AT 2 BPM WITH 750 PSI, CSG COMMUNICATED ABOVE RETAINER. MIXED 50 SX CL. G CEMENT PLUG, PLACING 32 SX ABOVE AND 18 SX BELOW RETAINER, SQUEEZING PERFORATIONS TO 2000 PSI. POH AND WOC. RIH AND TAGGED TOC AT 4206'.

PLUG #3 (DECHELLE, 2632' - 2732'),

PUH AND PERFORATED SQUEEZE HOLES AT 2732'. POH. RIH WITH 5 1/2" RETAINER AND SET AT 2688'. PRESSURE TESTED CSG TO 500 PSI AND HELD GOOD FOR 10 MINUTES. ESTABLISHED INJECTION RATE INTO PERFORATIONS WITH WATER AT 2 BPM WITH 1250 PSI. MIXED 47 SX CL. G CEMENT PLUG PLACING 35 SX BELOW AND 12 SX ON TOP OF RETAINER. POH.

PLUG #4 (CHINLE, 8 5/8" SHOE, 1372' - 1584'),

RIH WITH WIRELINE AND PERFORATED SQUEEZE HOLES AT 1584'. RIH WITH 5 1/2" RETAINER AND SET AT 1532'. ATTEMPT TO ESTABLISH INJECTION RATE INTO PERFORATIONS BUT PRESSURED UP TO 2000 PSI AND HELD. **BLM APPROVED CHANGE IN PROCEDURE.** BALANCED 24 SX CL. G CEMENT PLUG ON TOP OF RETAINER. POH.

PLUG #5 (SURFACE, 0' - 200'),

RIH AND PERFORATED SQUEEZE HOLES AT 200'. ESTABLISHED CIRCULATION TO SURFACE OUT THE 8 5/8" CSG, WELLHEAD FAILED. ATTEMPT TO CIRCULATE OUT THE 13 3/8" CSG, WELLHEAD FAILED. **BLM APPROVED CHANGE IN PROCEDURES.** MIXED 67 SX CL. G CEMENT TO CIRCULATE GOOD CEMENT TO SURFACE OUT THE 8 5/8" CSG. DUG CELLAR AND CUT OFF WELLHEAD. RIH WITH 1" TBG INTO 8 5/8" x 13 3/8" ANNULAS AND TAGGED FILL AT 150'. MIXED 82 SX CL. G CEMENT TO CIRCULATE GOOD CEMENT TO SURFACE. POH. TOPPED OFF CSG WITH 3 SX CL. G CEMENT. INSTALLED DRY HOLE MARKER, RD RIG AND MOL.

NATHAN E. CRAWFORD.
P&A SUPERVISOR