



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Roswell, New Mexico 88501

November 26, 1975

Teal Petroleum Company
405 Wall Towers East
Midland, Texas 79701

Gentlemen:

Your Application for Permit to Drill well No. 1, 1/8 Federal Cont.
in the SE 1/4, sec. 3, T. 21 N., R. 32 E., Co. 1, New Mexico
lease 101 25460, to a depth of 10,000 feet to test the Morrow
formation in the Oil-Potash area is hereby approved.

One copy of the application is returned herewith. Please notify
the District Engineer, Geological Survey, Hobbs, New Mexico, in
sufficient time for a representative to witness all casing
operations.

Sincerely,
A. A. CILHAM

A. A. CILHAM
A. A. CILHAM

Acting Area Oil and Gas Supervisor

cc: Denver
Mining Branch (2)
NMOCC-Hobbs (2) (w/2 cys. Notice)✓
Hobbs
Roswell (2)

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
Teal Petroleum Company

3. ADDRESS OF OPERATOR
405 Wall Towers East Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
 At surface
660' FSL & 1980' FEL
 At proposed prod. zone
same as surface

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
3 miles Southeast of Halfway

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

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

19. PROPOSED DEPTH
14,400

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, CR, etc.)
3746 G. L.

22. APPROX. DATE WORK WILL START*
12-1-75

23. PROPOSED CASING AND CEMENTING PROGRAM

5. LEASE DESIGNATION AND SERIAL NO.
NM-25460

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal Comm

9. WELL NO.
1 - 100

10. FIELD AND POOL, OR WILDCAT
Hat Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 3, T 21S, R 32E

12. COUNTY OR PARISH
Lea

13. STATE
N. M.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8"	48#	450'	650
12 1/4	8 5/8"	28#-32#	5800'	2150
7 7/8	5 1/2"	17# & 20#	14,400'	1350

See attached sheets for casing and cementing programs.
 The well will be drilled to a depth of 14,400' + to test the Morrow Sands.
 Dual 1500 series ram type blow-out preventors and one Hydrill will be used.

SEE ATTACHED
 COPIES

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 Western District Manager DATE October 30, 1975

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

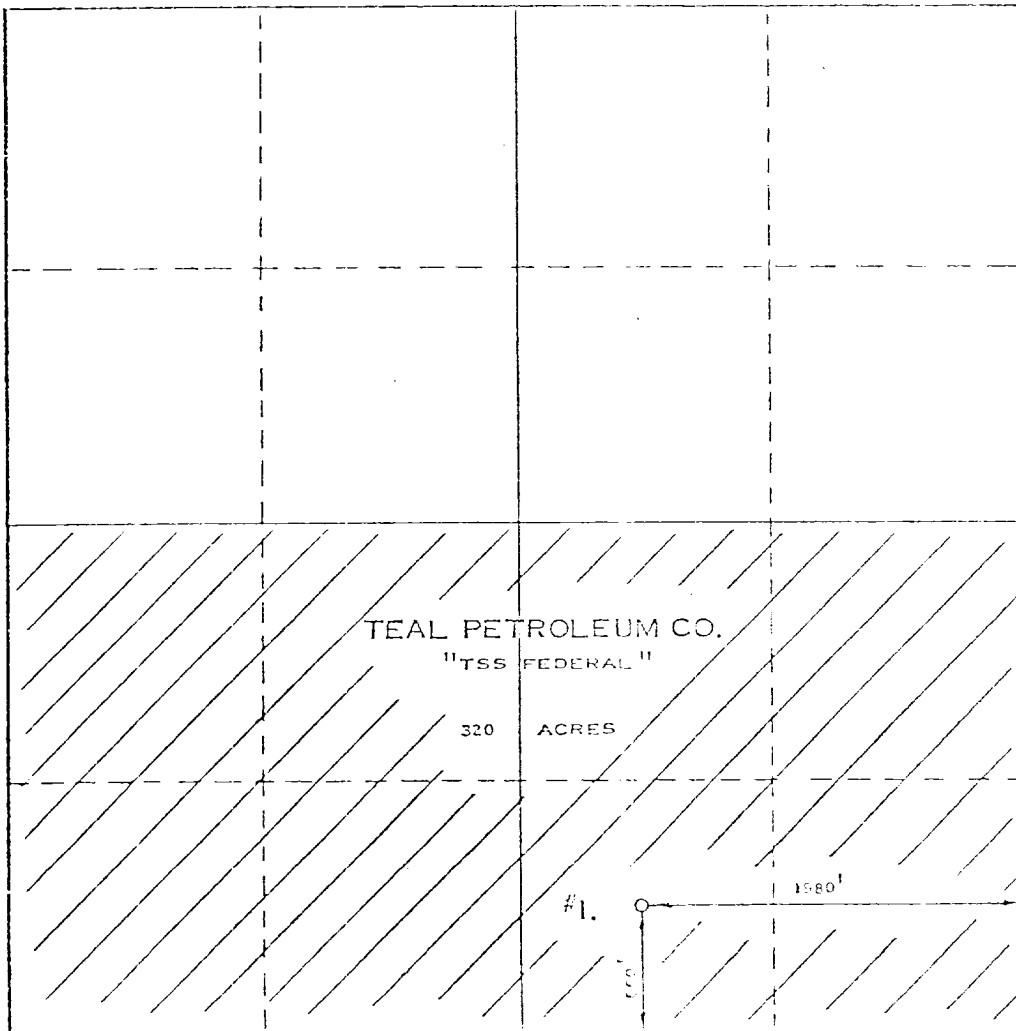
Operator TEAL PETROLEUM CO.		Lease TSS FEDERAL COMM		Well No. 1
Unit Letter "W"	Section 3	Township 21 - S	Range 32 - E	County LEA
Actual Footage Location of Well: 660 feet from the SOUTH line and 1980 feet from the EAST line				
Ground Level Elev. 3746	Producing Formation MORROW	Pool HAT MESA FIELD	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation COMMUNITIZATION

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



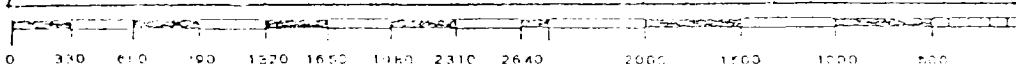
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
E. M. Puerst
Position
Western District Manager
Company
Teal Petroleum Company
Date
October 31, 1975

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
OCTOBER 28, 1975
Registered Professional Engineer and Oil Land Surveyor
Max A. Schumann, Jr.
Certificate No.
1510



Teal Petroleum Company
TSS Federal #1
Lea County, New Mexico

CASING & CEMENTING PROGRAM:

Surface Casing:

17½" hole size; set approximately 450' of 13 3/8" 48# H-40 csg., circulate cement to surface. 350 sacks Class "C", 4% gel, 2% Calcium Chloride, ¼# flocele per sack followed by 300 sacks Class "C" 2% Calcium Chloride, ¼# flocele per sack.

Intermediate Casing:

12¼" hole size; set approximately 5000' of 8 5/8" 32# & 28# K-55 casing cement to surface. Cement in two stages by placing a DV Multiple Stage Cementer at approximately 3000'. First stage 750 sacks Halliburton "Light", ¼# flocele, 5# Gilsontite per sack + 300 sacks Class "C", 2% Calcium Chloride, ¼# flocele per sack. Second stage 1000 sacks Halliburton "Light", 15# salt, 5# Gilsontite & ¼# flocele per sack + 100 sacks Class "C", 2% Calcium Chloride per sack.

Production Casing:

7.875" hole size, set 5½" 20# & 17# N-80 & K-55 casing from 14,400' to surface. Cement with 500 sacks Halliburton "Light", 0.6% Halad-22A, 5# KCL, ¼# flocele per sack + 850 sacks Class "B" 0.3% Halad-22A, 0.4% CFR-2, 3# KCL & ¼# flocele per sack. Estimated fillup 8700'.

MUD PROGRAM:

0-450' - Fresh Water, Gel & Lime type drilling fluid

450'-5800' - Brine 10#/gallon

5800'-11,500' - Fresh Water & Visquick

11,500'-T.D. - Brine & KCL System Wt. 10-10.2#/gal, Viscosity 30-40, 10cc Water Loss

1 7 Station Koomey Accumulator

1 Koomey Remote Stand

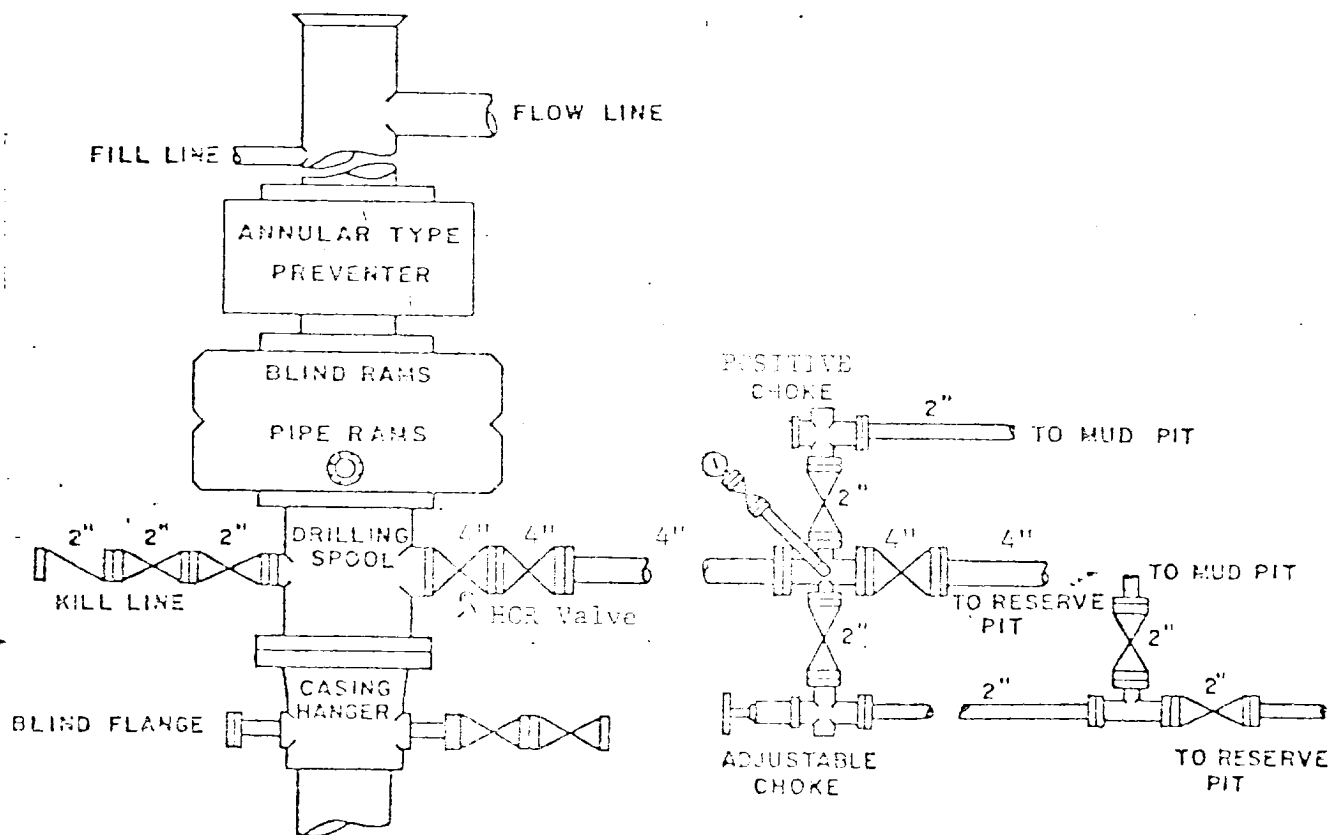
5000 WP Manifold

1 12" Type B, Double BOP, 900 Series, 3000 WP

1 10" Type F Cameron Double BOP, 5000 WP

1 10" GK Hydril - 5000 WP

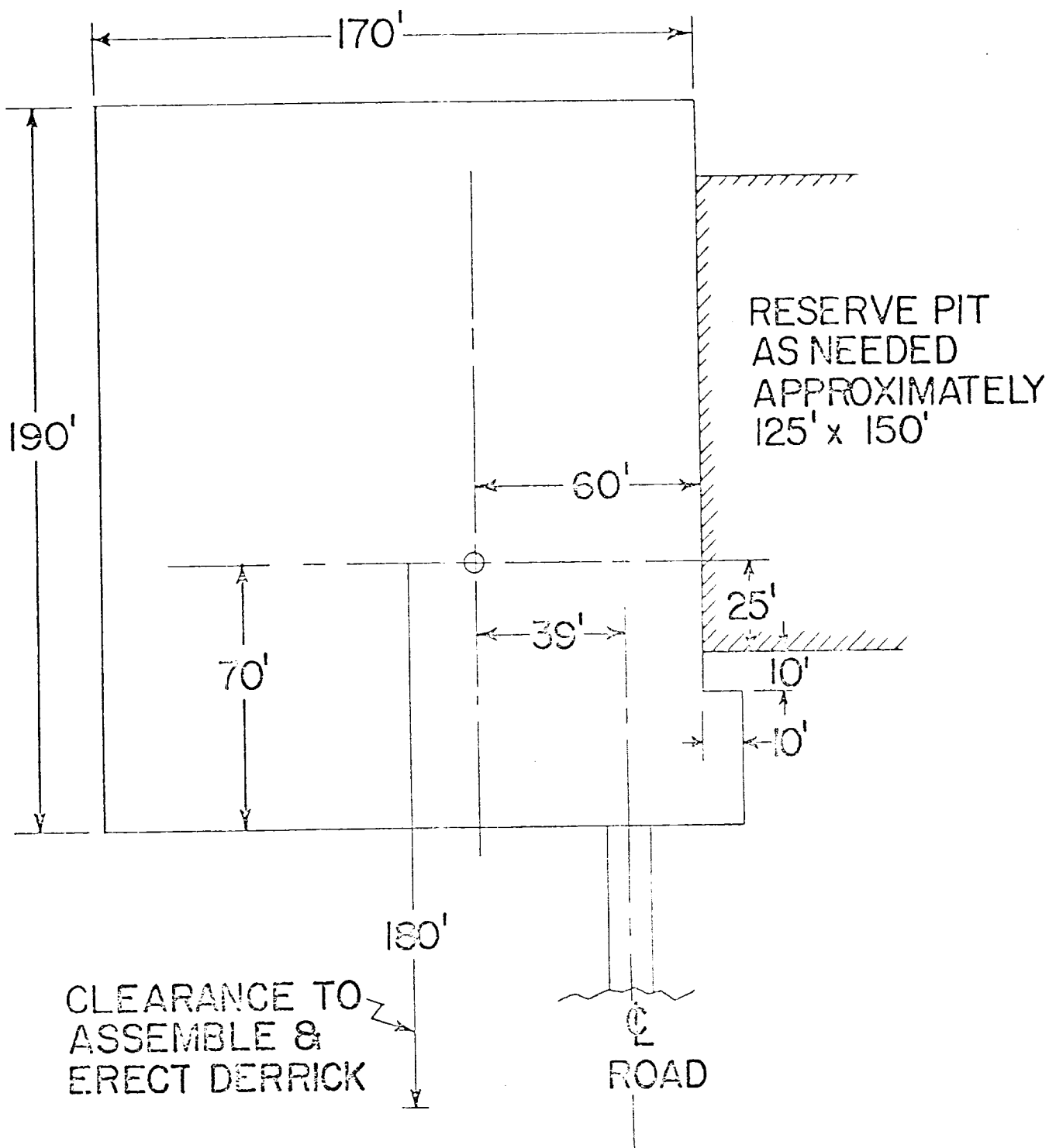
RIG #4



TEAL PETROLEUM COMPANY
TSS FEDERAL #1
LEA COUNTY, NEW MEXICO

Development Plan for Surface Use

1. Existing Roads (See Exhibit "A")
2. Planned access roads (See Exhibit "B")
3. Location of wells (See Exhibit "B")
4. Lateral roads to well location (See Exhibit "B")
5. Location of tankbatteries and flowlines on drilling location.
6. Locations and types of water supply:
There is no adequate water supply in this area. Water will be trucked to location.
7. Methods for handling waste disposal:
All waste items which will not burn (junk metal, tin cans, rubber pipe protectors, etc.) will be collected and buried during clean-up operations after drilling has ceased. Waste items which will burn (mud sacks, lunch sacks, cartons, etc.) will be burned during drilling operations. Proper care will be taken to observe fire safety precautions when burning waste in order to prevent damage to vegetation.
8. Proposed disposition of produced brine:
It is not anticipated that brine will be produced; however, should brine be produced, it will be stored and trucked away.
9. Proposed disposition of casinghead gas:
It is not anticipated that casinghead gas will be produced; however, should this occur, marketing arrangements will be made.
10. Location layout:
See Exhibit "C"
11. Plans for restoration of the surface:
The area will be cleared of all junk and trash. Disposal of such wastes will be carried out as stated in item No. 7. Surface will be leveled and restored as nearly as possible to its original state through filling pits, etc.
12. Additional information essential to assessment of impact on the environment:
At this time, there is no additional information regarding the above. However, additional items may appear during operations.



LOCATION DIMENSIONS
RIGS, 3, 4, 6 & 36

COUNTY IEA **FIELD** Harsh Mesa
OPR TEAL PETROLEUM CO.
NO. 1 **LEASE** Federal "TSS" Com.
Sec 3, T21S, R32E
660' ESL, 1980' FEL of Sec
3 mi S & 4 mi E/Halfway
22-75 CMP 5-5-76

SPECS:

13 3/8" at 480' w/650 sx
8 1/8" at 5627' w/2950 sx
2 1/2" at 14,300' w/500 sx

WELL CLASS:		FIN	
FORMATION	DATUM	FORMATION	DATUM
TD	14,300'	(MSST)	PBO 14,161'

RP (Morrow) Ferfs 13,770-262' CAOP 5339 MCF/GD. GOR 42, 190.
gly (Gas) .647; (Cond) 52; SIWHP 4200#

CONTR Warton OPR'S ELEV 3746' GL 3768' KRPD 14,400' RI

F.R. 12-8-75
(Morrow)

1-7-76 Drlg 4091' lm & sd
1-13-76 Drlg 5539'
1-21-76 Drlg 8170'
1-27-76 Drlg10,532' lm & sh
1-3-76 Drlg 12,390'
1-10-76 Drlg 13,638'
1-13-76 Drlg 13,945'
1-21-76 TD 14,300'; WOCU
1-21-76 TD 14,300'; Prep Perf
1-21-76 TD 14,300'; FBD 14,165'; Istg
1-9-76 Perf (Morrow) 13,770=780', 13,788-790',
13,802-812', 13,836-840', 13,852=862' w/ 500
Acid (13,770=862') 4000 gal

6-4-24

No. 2

LEA
IFAL PETROLEUM CO.

Hat Mesa
1 Federal "TSS" Com.
Sec 3, T21S, R32E

NM
Page #2

6-15-76 TD 14,300'; PBD 14,165'; Tstg
Flwd 100 MCFGPD in 8 hrs, 48/64" chk,
TP 75-100# (13,770-862')
6-17-76 TD 14,300'; PBD 14,165'; Tstg
Flwd 1100 MCFGPD + 18 B Cond in 24 hrs
thru 14/64" chk (13,770-862')
6-21-76 TD 14,300'; PBD 14,165'; WOSP
Flwd 2900 MCFGPD + 100 B Cond in 32 hrs thru
14/64" chk, CP 550#, TP 2150# (13,770-862')
6-1-77 TD 14,300'; PBD 14,165'; WOSP
GAGE 5339 MCFGPD (13,770-862')
6-21-76 TD 14,300'; PBD 14,165'; Complete
6-4-12 NM

6-21-76

(Continued)

(Morrow) FOUR POINT GAUGES:

Flwd 3216 MCFGPD, 1.5" orifice, 60 mins, TP 2300#
Flwd 2462 MCFGPD, 1.5" orifice, 60 mins, TP 2530#
Flwd 1262 MCFGPD, 1.5" orifice, 60 mins, TP 3300#
Flwd 628 MCFGPD, 1.5" orifice, 60 mins, TP 3900#
LOG TOPS: Rustler 1480', Base Salt 3270', Yates
3488', Delaware Sand 5610', Bone Spring 8650',
Wellcamp 11,164', Strawn 12,730', Atoka 12,872',
Marlow 13,634'

6-26-76

LOGS RUN: GRNL, ERXL
COMPLETION ISSUED

6-4-12

NM