

THE PETROLEUM CORPORATION OF DELAWARE
SUITE 1225
ONE FIRST CITY CENTER
MIDLAND, TX 79701

September 9, 1986

New Mexico Oil Conservation Division
P.O. Box 2088
State Land Office Bldg.
Santa Fe, NM 87501

Attn: Mr. David Catanach

Dear Sir:

The purpose of this letter is to notify the NMOCD that we do not intend to protest Challenger Energy, Inc.'s application to convert their Bedena Federal #1 (located 660' FWL and 2055' FSL, Sec. 18, T-26S, R-30E, Eddy County, New Mexico) to a salt water disposal well.

We are aware that the proposed zone of injection is the Ramsey Sand of the Bell Canyon formation; the same zone from which we are producing within a two mile radius of the proposed injection well.

Sincerely,

H.R. Rehders



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

December 11, 1986

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Mr. Ernest L. Padilla
Padilla & Snyder
Attorneys at Law
P. O. Box 2523
Santa Fe, New Mexico

Re: CASE NO. 9033
ORDER NO. R-3337

Applicant:

Challenger Energy, Inc.

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,

B. L. Ham

R. L. STAMETS
Director

RLS / fd

Copy of order also sent to:

Hobbs OCD	<u>X</u>
Artesia OCD	<u>X</u>
Aztec OCD	

Other _____

WELL DATA

- A. 1) Challenger Energy, Inc.
Bedena Federal #1
660' FWL 2055' FSL Sec. 18
T-26S, R-30E
Eddy County, New Mexico
- 2) 350' of 13 3/8" casing set in 17 1/2" hole
Cemented with 370 sacks class "C" with 2% CaCl_2
Circulated to pit - witnessed by the BLM
- 3135' of 8 5/8" casing set in 11" hole
Cemented bottom stage with 200 sacks class "C" with 2% CaCl_2
Cemented top stage through DV Tool at 800' with 900 sacks lite cement with 6% salt and 100 sacks class "C" with 2% CaCl_2 .
Circulated 15 sacks to pit. Cement fell back. Tagged with 1" pipe run in annulus.
Cement to surface with 12 yards redimix.
- 6283' of 5 1/2" casing set in 7 7/8" hole
Cement bottom stage with 300 sacks 50/50 POZ "C" with 6# salt and 1/4# Flocele per sack.
Cement top stage through DV tool at 5129' with 600 sacks 50/50 POZ "C" with 6# salt and 1/4# Flocele per sack.
Temperature survey showed top cement at 2600'.
- 3) 3310' of plastic lined 2 3/8" tubing is proposed.
- 4) A plastic coated 5 1/2 X 2 3/8" Watson Jay Lock packer will be set at approximately 3310'.
- B. 1) The injection formation is to be the Ramsey Sand of the Bell Canyon formation (Upper Delaware), within the Brushy Draw Delaware Pool.
- 2) The perforated interval is 3321, 29, and 45' with two (2) hydrojet cuts per foot. (6 cuts)
- 3) The well was originally completed for commercial oil and gas in the Lower Cherry Canyon.
- 4) Other perforated intervals are 6100, 04, 08' with two (2) hydrojet cuts per foot.
CIBP at 5980'
5291, 5358, 5372' with two (2) hydrojet cuts per foot.
RBP at 3850'.
- 5) No higher zones productive to oil and gas are evident in this well or in area. Lower zones tested non-commercial to oil or gas in this well.



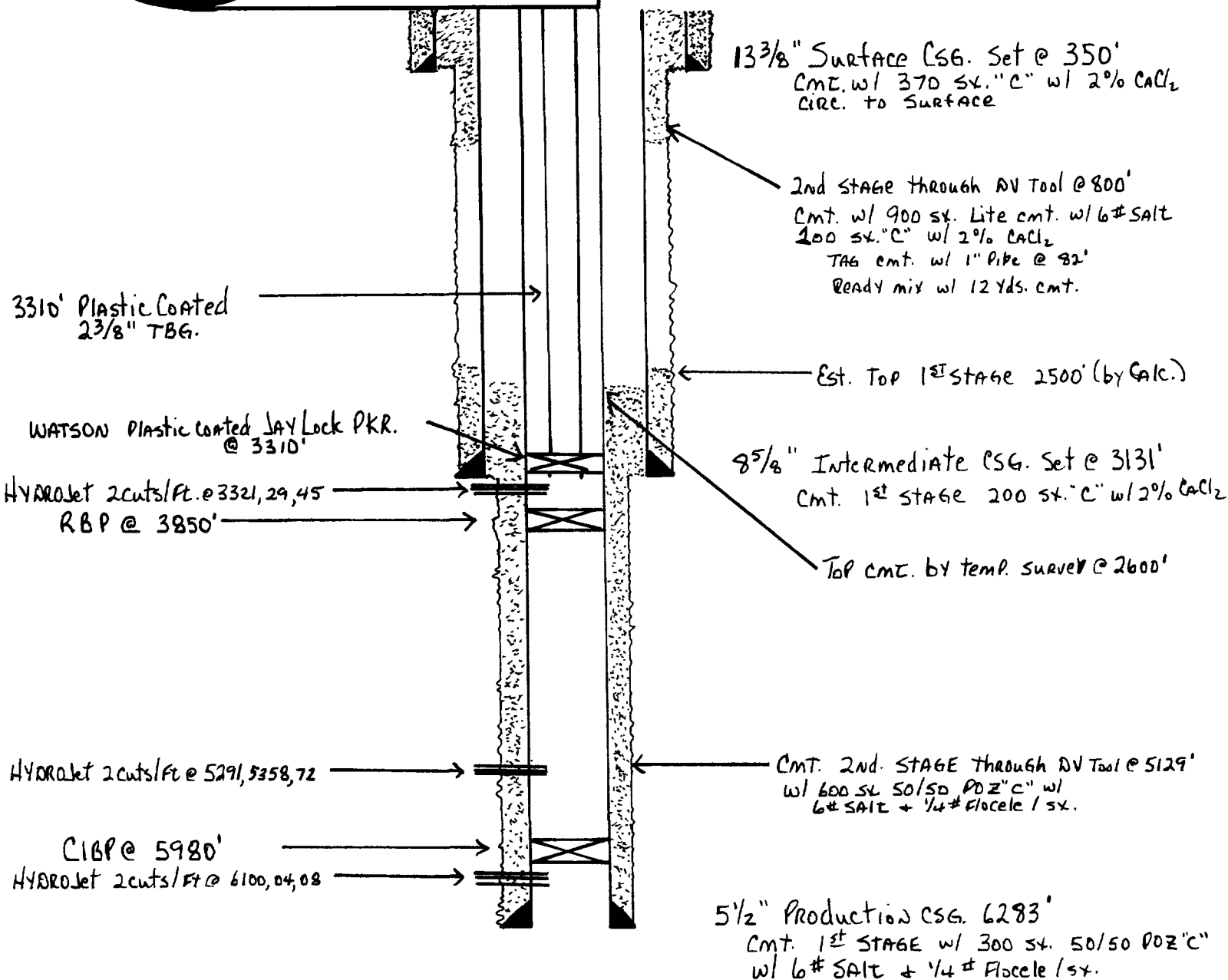
517 CENTRE
P. O. BOX 1262
ARTESIA, NEW MEXICO
88211-1262
(505) 748-3636

Challenger Energy Inc.

Bedena Federal #1

660' FWL 2055' FSL Sec 18 T26S R30E
Eddy Co. N.M. NM 16814

Proposed Disposal Well
into Ramsey Sand -



HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS

No. W202-86

To Challenger Energy

Date _____

P. O. Box 1262Artesia, NM 88210

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management. It may however, be used in the course of regular business operations by any person or persons and employees thereof receiving such report from Halliburton Company.

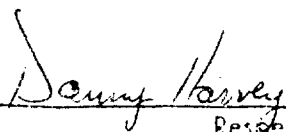
Submitted by Craig HuberDate Rec. March 31, 1986Well No. Picou #1 Depth 5764' to 5788'

Formation _____

County Eddy Field Brushy DrawSource SwabResistivity 1.182 @ 72°Specific Gravity052 @ 68°pH 8.0Calcium (Ca) 31,300Magnesium (Mg) 5,257Chlorides (Cl) 167,000Sulfates (SO₄) NilBicarbonates (HCO₃) 183Soluble Iron (Fe) Nil

Remarks:

*Milligrams per liter



Respectfully submitted,

Analyst: Danny Harvey - Field Supervisor

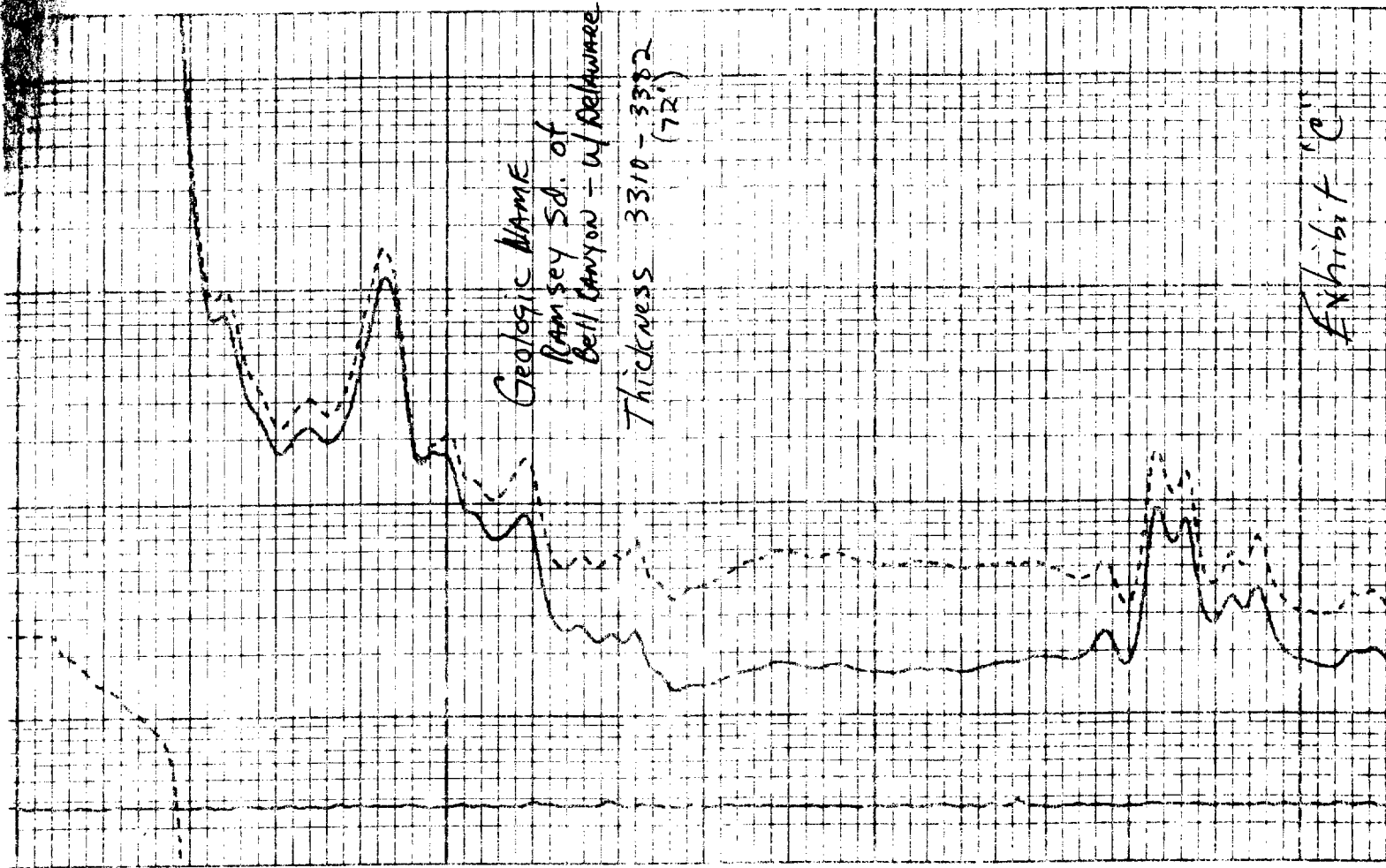
HALLIBURTON COMPANY

cc:

ILLEGIBLE*Exhibit A*

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether direct or indirect, resulting from such report or its use.



03300

03400



gr, slt, silty, mod crdld,
sh calc, w/20% brt yell
flu, no vis cut or str

SS: gr, lt gr, whit, vfn gr,
tuffe, silty, shi calc, trs
all silty, shi mica, trs brt
yell flu
LS: shk brn, gr, whit, vfn xls
shly, silty

SS: gr, lt gr, vfn gr, mod-
all crdld, trs prly crdld,
some calc, sub ang-sub
mod, w/30% brt yell flu,
no vis cut or str

SS: lt gr, sh, sh gr, trs
mod gr, unconsld to some
prly crdld, calc, sub ang-
sub crdld, w/30% brt yell
flu, no vis cut or str

SS: lt gr, sh, sh gr, prly con-
unconsld, sub ang-sub mod
w/20-30% brt yell flu, no
vis cut or str

SH: shk brn, gr, sh, sh, silty
shly, pyritic, trs shi
calc
NOTE: SCAFF TIES LMS

SS: shk gr, sh, sh to some vfn
gr, unconsld to prly mod
crdld, calc, sub ang-sub
mod, w/ali trs brt yell
flu, no vis cut or str

WATER TABLE



Exhibit 1

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Case 9033
Form approved.
Budget Bureau No. 42-R1424.

c/s

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 ☐		5. LEASE DESIGNATION AND SERIAL NO. NM-16814	
2. NAME OF OPERATOR BLANCO ENGINEERING, INC. ✓		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 116 NORTH FIRST, ARTESIA, N.M. 88210		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FWL - 2055' FSL, Section 18-T26S-R30E, NMPM Eddy County, New Mexico		8. FARM OR LEASE NAME Bedena Federal	
14. PERMIT NO.		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3044 GR		10. FIELD AND POOL, OR WILDCAT East Brushy Draw	
		11. SEC., T., R., M., OR SLE. AND SURVEY OR AREA 18-T26S-R30E NMPM	
		12. COUNTY OR PARISH Eddy	13. STATE N.M.

MAY 10 1985

O. C. D.
ARTESIA, OFFICE

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) Surface Pipe 13 3/8

(Other)

(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.)*

Spudded 17 1/2" Hole at 4:00 P. M. (5-1-85). Drilled to 353'. Ran and cemented 13 3/8" casing at 350'. Used 370 sx. Class C cement with 2% CaCl. Circulated cement to pit. Plug down at 2:00 A.M. (5-2-85). Job witnessed by Repr. of BLM.

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

SIGNED

Paul White

TITLE

President

DATE

5/6/85

(This space for Federal or State office use)

APPROVED BY ACCEPTED FOR RECORD
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

MAY 8 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

NM-16814

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Bedena Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

East Brushy Draw

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

18-T26S-R30E

NMPM

12. COUNTY OR PARISH 13. STATE

Eddy

N.M.

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

BLANCO ENGINEERING, INC.

3. ADDRESS OF OPERATOR

116 North First, Artesia, N.M. 88210

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

660' FWL - 2055' FSL, Section 18-T26S-R30E,
NMPM Eddy County, New Mexico

14. PERMIT NO.

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

3044 GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

REPAIR OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACURE 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.)*

7 APD app 8 for 12 1/4"

An 11" hole was drilled to a depth of 3135'. 8 5/8" 32# and 24# casing was run to a depth of 3131'. A cement Diverter Tool was run at 800'. Cemented bottom stage with 200 sx of Class C - 2% CaCl. Cemented top stage with 900 sx. of Lite with 6% salt plus 100 sx. Class C w/2% CaCl. After 2 hrs. tagged cement at 82' from surface. Put 12 yds. of Redi-Mix around 8 5/8" and filled to surface. Plug down at 11:00 A.M. (5-12-85) after 18 hrs. tested casing to 2000 psi., drilled to 3160' - tested csg. for 30 minutes to 2000 psi. - Tested o.k.

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

SIGNED

TITLE President

DATE 5/20/85

(This space for Federal or State office use)

APPROVED FOR RECORD
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

MAY 31 1985

*See Instructions on Reverse Side

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.

NM-16814

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

O. C. D.
ARTESIA, OFFICE

NM OIL CONS. COM.

Drawer DD

Artesia, NM 88211

7. AGREEMENT NAME

2. NAME OF OPERATOR

BLANCO ENGINEERING, INC.

8. FARM OR LEASE NAME

Bedena Federal

3. ADDRESS OF OPERATOR

116 North First, Artesia, N.M. 88210

9. WELL NO.

1

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

660' FWL - 2055' FSL, Section 18-T26S-R30E,
NMPM Eddy County, New Mexico

10. FIELD AND POOL, OR WILDCAT

East Brushy Draw

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

18-T26S-30E

NMPM

14. PERMIT NO.

15. ELEVATIONS (Show whether BF, FT, CR, etc.)

3044 GR

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐
☐

FRACURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐
☐

REPAIRING WELL

☐
☐
☐
☐
☒

FRACURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) 5 1/2" Casing Program

(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.)*

A 7 7/8" hole was drilled to 6300'. After running electric logs 5 1/2" - 17#- New csg. was set at 6283'. Bottom state was cemented with 300 sx. 50/50 Poz Class C with 6# salt and 1/4# Flocele per sack. Top stage was cemented through D.V. Tool at 5129' with 600 sx. 50/50 Poz Class C with 6# salt and 1/4# Flocele per sack. Plug was down at 6:30 P.M. 5/19/85. After 12 hrs. temperature survey showed top of cement behind 5 1/2" at 2600'. 531' of cement up in 8 5/8" csg. Now W.O.C.

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

SIGNED

Paul White

TITLE

President

DATE

5/20/85

(This space for Federal or State office use)

APPROVED BY

ACCEPTED FOR RECORD

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

McR
MAY 21 1985

See also instructions on Reverse Side.

OPERATIONS COPY

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-81424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil ☒ gas ☐
well well other

2. NAME OF OPERATOR

C.E. LaRue & B.N. Muncy, Jr.

3. ADDRESS OF OPERATOR

PO Box 470 Artesia, NM 88210

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 2055' FSL & 660' FWL Section 18,
AT TOP PROD. INTERVAL: T16S R30E
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

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

SUBSEQUENT REPORT OF:

☐
☒
☒
☐
☐
☐
☐
☐

5. LEASE

NM-16814

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Bedena Federal

9. WELL NO.

1

10. FIELD OR WILDCAT NAME

East Brushy Draw

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

Section 18, T26S, R30E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

14. API NO.

3001525273

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

3044' CL

*submitted
9-13-85
JB*

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

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

Set Retrieivable Bridge Plug @ 5410'. Perforated with 2 shots @ 5373', 2 shots @ 5389', and 2 shots @ 5396'. Fraced with 2000 gallons 5% NEF Acid, 500 bbls. gelled water and 19,000# 10-20 sand. August 30, 1985

Subsurface Safety Valve: Manu. and Type _____ Set 2 _____ Ft.

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

SIGNED [Signature] TITLE Operator DATE September 3, 1985

ACCEPTED FOR RECORD

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY

SEP 9 1985

OFFICIAL COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
C.E. Lakue & B.N. Muncy, Jr.
3. ADDRESS OF OPERATOR
PO Box 470 Artesia, NM 88210
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2055' FSL & 660' FWL Section 18,
AT TOP PROD. INTERVAL: T16S R30E
AT TOTAL DEPTH:

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

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

5. LEASE
NM-16814
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Bedena Federal
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
East Brushy Draw
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 18, T26S, R30E
12. COUNTY OR PARISH
Eddy
13. STATE
NM
14. API NO.
3001525273 ✓
15. ELEVATIONS (SHOW DF, KDB, AND WD)
3044' GL

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

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

Set Retrieivable Bridge Plug@ 5410'. Perforated with 2 shots @ 5373', 2 shots @ 5389', and 2 shots @ 5396'. Fraced with 2000 gallons 5% NEF Acid, 500 bbls. gelled water and 19,000# 10-20 sand. August 30, 1985

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

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

SIGNED [Signature] TITLE Operator DATE September 3, 1985

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY [Signature]

SEP 9 1985

UNITED STATES OPERATIONS COPY
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR LaRue & Muncy
(Formerly Blanco Engineering)
3. ADDRESS OF OPERATOR
P. O. Box 196 Artesia, N. M. 88210
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FWL & 2055' FSL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

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

5. LEASE
NM - 16814
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Bedena Fed
9. WELL NO.
10. FIELD OR WILDCAT NAME
Brushy Draw Delaware
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
S-18, T-26S, R-30E
12. COUNTY OR PARISH
Eddy
13. STATE
N. M.
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
3044' GL

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

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

5-31-85 Shot 2 Shots per foot .042 dia from 6213-6225
and 6180-6190 Total 44 shots. Pumped 3000 gal. Halliburton
10% NEFE HCL & swabbed.
6-1-85 Set Baker wire line Bridge plug (drillable) at 6120' and
tested to 2000# and held for 30 minutes. Shot 1 shot per foot
from 5416'-5446' total 30 shots.
6-2-85 Pumped 2000 gal Halliburton 10% NEFE HCL and fractured with
40000 gal gelled water and 62000 lb 12/20 sand and 26000 lb 8/16 sand
at 32 BPM at 800 PSI
8-6-85 Set tubing at ~~4970'~~ and pumping 10 BOD and 150 BOWD
5239'

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

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

SIGNED [Signature] TITLE Owner DATE 8-6-85

(This space for Federal or State office use)

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

AUG 12 1985

*See Instructions on Reverse Side

CARLSBAD, NEW MEXICO

**OPERATIONS COMMITTEE STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See oil
instructions on
reverse side)Form approved,
Budget Bureau No. 42-R350.6.**WELL COMPLETION OR RECOMPLETION REPORT AND LOG***

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____				5. LEASE DESIGNATION AND SERIAL NO. NM-16814							
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____				9. IF INDIAN, ALLOTTEE OR TRIBE NAME _____							
2. NAME OF OPERATOR C. E. LaRue & B. N. Muncy, Jr. (Formerly Blanco Engineering)				7. UNIT AGREEMENT NAME _____							
3. ADDRESS OF OPERATOR P. O. Box 196, Artesia, N. M. 88210				8. FARM OR LEASE NAME Redena Fed							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface _____ At top prod. interval reported below 660'FWL and 2055'FSL At total depth _____				9. WELL NO. _____							
15. PERMIT NO. _____		DATE ISSUED _____		10. FIELD AND POOL, OR WILDCAT Brushy Draw Delaware							
12. COUNTY OR PARISH Eddy		13. STATE NM		11. SEC., T., R., M., OR BLOCK AND SURVEY OF AREA S-18, T-26S, R-30E							
15. DATE SPOOLED 5-1-85	16. DATE T.D. REACHED 5-18-85	17. DATE COMPL. (Ready to prod.) 8-2-85	18. ELEVATIONS (OF, REB, RT, GR, ETC.)* 3044' GL	19. ELEV. CASINGHEAD 3044' GL							
20. TOTAL DEPTH, MD & TVD 6300'	21. PLUG BACK T.D., MD & TVD 6120'	22. IF MULTIPLE COMPL., HOW MANY* _____	23. INTERVALS DRILLED BY all	24. ROTARY TOOLS all							
24. CASING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5416 - 5446'				25. WAS DIRECTIONAL SURVEY MADE yes 1° at TD							
26. TYPE ELECTRIC AND OTHER LOGS RUN Dresser Atlas - DL/GR CDN/GR PFC/GR				27. WAS WELL CORED No							
28. CASING RECORD (Report all stringer set in well)											
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED						
13 3/8	54#	350	17 1/2 "	370 sx. Halco 'C' w/ 1/4# celloflake & 2% CaCl							
8 5/8	24# & 32#	3133'	12 1/2 "	300 sx Halco 'C' w/ 2% CaCl & 900 sx Halco Lite w/ 6# salt & 1/4# celloflake							
5 1/2	17# N-80	6295'	7 7/8 "	600 sx Class 'C' w/ 6# salt & 1/4# Flowcel							
29. LINER RECORD			30. TUBING RECORD								
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	PACKER SET (MD)						
31. PERFORATION RECORD (Intervals, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.								
6213' - 6225' & 6180' - 6190' two shots per foot (44 shots) 5416' - 5446' one shot per foot (30 shots) .042 perforations			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL (MD)</th> <th>AMOUNT AND KIND OF MATERIAL USED</th> </tr> <tr> <td>6180' - 6225'</td> <td>3000 gal. 10% NEFE HCL</td> </tr> <tr> <td>5416' - 5446'</td> <td>2000 gal 10% NEFE HCL AND 40,000 gal Gelled water and 88,000 lbs sand</td> </tr> </table>			DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	6180' - 6225'	3000 gal. 10% NEFE HCL	5416' - 5446'	2000 gal 10% NEFE HCL AND 40,000 gal Gelled water and 88,000 lbs sand
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED										
6180' - 6225'	3000 gal. 10% NEFE HCL										
5416' - 5446'	2000 gal 10% NEFE HCL AND 40,000 gal Gelled water and 88,000 lbs sand										
33. PRODUCTION											
DATE FIRST PRODUCTION 8-2-85		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) art. lift		WELL STATUS (Producing or shut-in) Producing							
DATE OF TEST 8-6-85	HOURS TESTED 24	CHOKE SIZE TSTM	PROF'N. FOR TEST PERIOD 10	GAS—MCF. TSTM	WATER—BBL. 150						
LOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. ACCEPTED FOR RECORD	WATER—BBL.	OIL GRAVITY-API (CORR.)						
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TSTM				TEST WITNESSED BY C. E. LaRue							
35. LIST OF ATTACHMENTS AUG 12 1985											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records											
SIGNED <i>C. E. LaRue</i>		TITLE <i>Owner</i>		DATE <i>8-6-85</i>							

*(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 wells and areas in 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 23, below regarding separate reports for separate completions.

If not filed prior to the time this summary report 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 when 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 FORMER ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORDED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION TEST, TIME TOOL, OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38.	GEOLOGIC MARKERS	39.	
						NAME	TOP NEAR DEPTH TRUE VENT DEPTH
Salt	900	2850					
Delaware Lime	3320						
Delaware Sand	3350						
Cherry Canyon	4130						
Brushy Draw	5730						

November 1983
(Formerly 9-331)

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other Instructions on Reverse Side)
OPERATIONS

Expires August 31, 1985

1. LEASE DESIGNATION AND SERIAL NO.

NM-16814

2. IF INDIAN, ALLOTTEE OR TRIBE NAME

3. UNIT AGREEMENT NAME

4. FARM OR LEASE NAME

Badena Federal

5. WELL NO.

#1

6. FIELD AND POOL, OR WILDCAT

7. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 18: T-26S, R-30E

8. COUNTY OR PARISH 9. STATE

Eddy

NM

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
LaRue and Muncy
3. ADDRESS OF OPERATOR
P.O. Box 1262, Artesia, NM 88211-1262
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
660' FWL & 2055' FSL of Section 18
(Unit L)
(NW 1/4 SW 1/4)
14. PERMIT NO. 15. ELEVATIONS (Show whether DT, RL, etc.)
3044' GL

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐ PUMP ON AFTER CLOSING ☐
FRAC TREATMENT ☐ MULTIPLE COMPLETION ☐
KIDNEY OR ACIDIZING ☐ ABANDONMENT ☐
REPAIR WELL ☐ CHANGE PLANS ☐
(Other) ☐

WATER SHUT-OFF ☐ REPAIRING WELL ☐
FRAC TREATMENT ☐ ALTERING CASING ☐
SHOOTING OR ACIDIZING ☒ ABANDONMENT ☐
(Other) squeeze job ☒

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Give in detail 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.)

2/18/86 Squeezed perforations at 5373-5446 with 150 sks Class "H" with 2% gel and 150 gals flocced.
2/20/86 Drilled cement retainer and cement to 5446', Circulated hole at 6120
2/21/86 Ran cement bond log and evaluated
2/22/86 Hydrojet 6100,04,08 with 2 cuts per foot, acidized with 500 gals 15% NEFE HCL. Swabbed with packer set at 5950', swabbed acid water
2/23/86 Swabbed formation water with trace of oil and gas
2/24/86 Set CTRP at 5980', hydrojet 5291, 5358, 5372 with 2 cuts per foot, acidized with 1500 gals 15% NEFE HCL. Swabbed acid water with packer set at 5250'
2/25/86 Swabbed formation water with trace of oil and gas.
2/26/86 Bridge plug set at 3880', hydrojet 3321,29,45 with 2 cuts per foot, acidized with 1000 gals 15% NEFE HCL and 500 gals 15% HF acid, swabbed acid water with packer set at 3250'
2/27/86 Swabbed formation water with trace of oil and gas, run tubing and rods-king on pump, Total tubing 3352 of 2 7/8", SN at 3319
Pump testing Ramsey, Water production trucked to disposal wells.

I hereby certify that the foregoing is true and correct

SIGNED *Celia Luna*

TITLE *Production Clerk*

DATE *4/8/86*

(This space for Federal or State office use)

ACCEPTED FOR RECORD

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

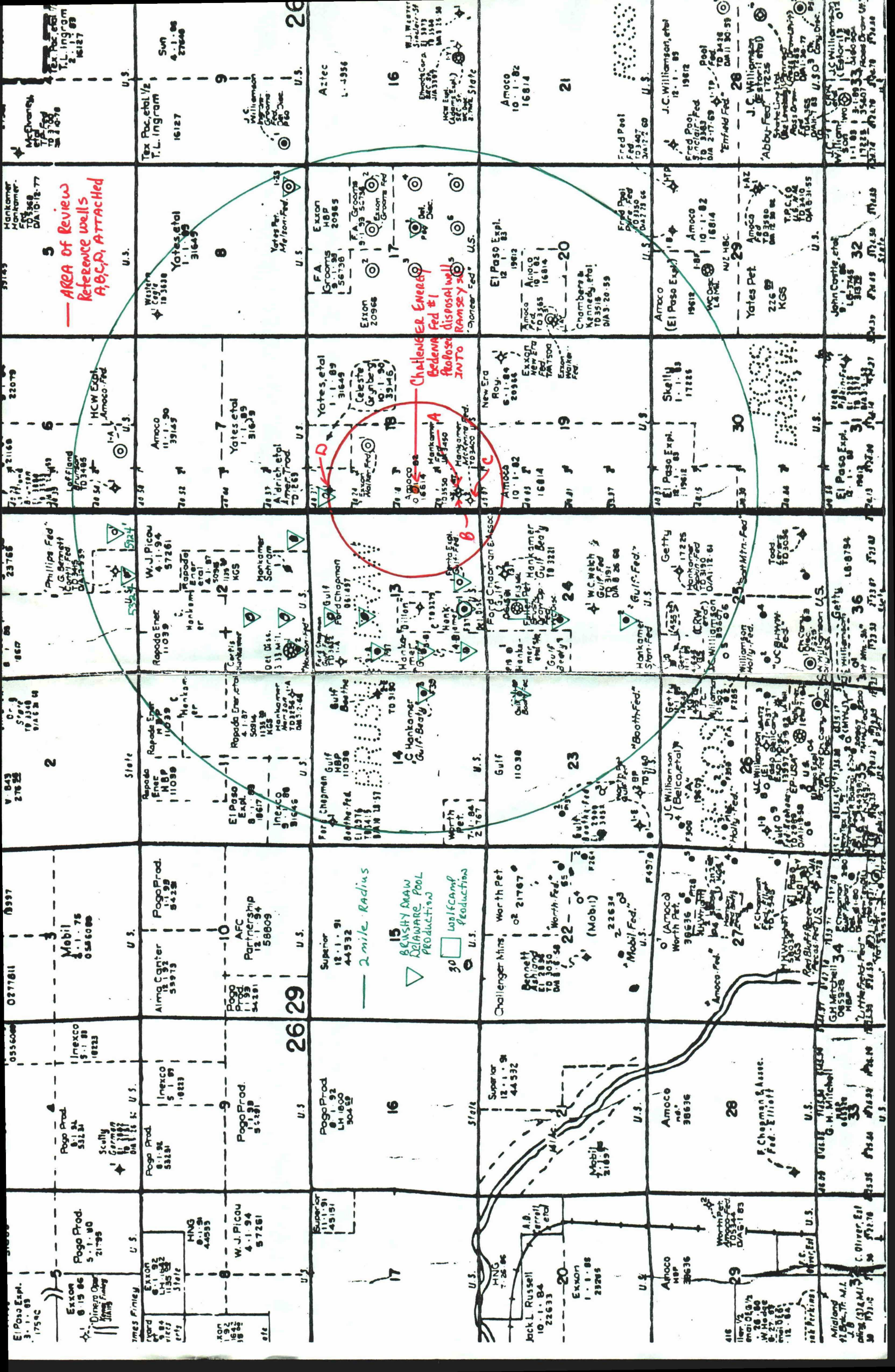
DATE

APR 14 1986

*See Instructions on Reverse Side

THE
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ILLEGIBLE

— AREA OF REVIEW
Reference wells
A, B, C, D, ATTACHED



Reference Well A



517 CENTRE
P. O. BOX 1262
ARTESIA, NEW MEXICO
88211-1262
(505) 748-3636

Curtis Hankamer

AT Federal #1

660' FS 660' FWL Sec. 18 T-26S R-30E

Eddy Co. N.M. NM 031375A

Spud 1-14-59

P&A 6-16-61

15 sk. Plug. @ Surface

GL 3050'

OK

8 5/8" Surface CSG. Set @ 317.5'
CMT. w/ 150 sk.
(unk. hole size)

35 sk. Plug 540'-600'

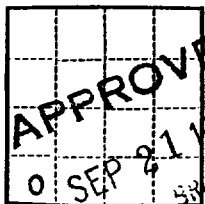
35 sk. Plug 900'-1050'

4 1/2" CSG. Pulled From 2750'

Perf. 3331-43 6 SPF
Squeezed w/ 80 sk.
Perf 3356-58 6 SPF

15 sk. Plug 3311'-3498'

4 1/2" Production CSG. set @ 3448'
CMT. w/ 200 sk. 50/50 DOZ.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office.....

Lease No. NM-031375-A.....

Unit "M".....

A. R. 5806 N.B.
ACTING DISTRICT ENGINEER

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 16, 1961

Well No. "AT"-Federal 1 is located 660 ft. from ^N_S line and 660 ft. from ^E_W line of sec. 18SW/4 SW/4 18 T-26-S R-30-E NMPM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Brushy Draw (Und.) Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3050 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Mudded hole. Set following cement plugs:

15 sxs - ³⁷¹¹₃₄₄₈' - 3498'
35 sxs - 900' - 1050'
35 sxs - 540' - 600'
15 sxs - Top of surface casing

Recovered 2750' of 4½" casing.

Placed 4" marker. Pits have not presently been leveled. First opportunity when equipment is available, location will be leveled.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Curtis Hankamer

Address 1422 Bank of the Southwest Bldg.

Houston 2, Texas

By

Phil C. Hankamer

Title Engineer

REQUEST FOR (OIL) - (GAS) ALLOWABLE

OCT 3 1960
New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Brushy Draw Field September 29, 1960
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Curtis Hankamer "AT" Federal Well No. 1, in SW 1/4 SW 1/4,
(Company or Operator) (Lease)

M Sec. 18, T -26-S, R-30-E, NMPM, Brushy Draw (Delaware) Pool
Unit Letter

Eddy

County Date Spudded 1-14-59 Date Drilling Completed 1-25-59

Please indicate location:

Elevation 3050' DT Total Depth 3450' PBTD -

Top Oil/Gas Pay 3325 Name of Prod. Form Delaware

PRODUCING INTERVAL -

Perforations 3347-49'

Open Hole - Depth Casing Shoe 3448' Depth Tubing 3312'

OIL WELL TEST -

Natural Prod. Test: - bbls. oil, - bbls water in hrs, min. Size Choke

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): 3 bbls. oil, 60 bbls water in 24 hrs, 0 min. Size Choke none

GAS WELL TEST -

Natural Prod. Test: MCF/Day; Hours flowed Choke Size

Method of Testing (pitot, back pressure, etc.):

Test After Acid or Fracture Treatment: MCF/Day; Hours flowed

Choke Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and

sand): 250 gals. MCA, 1000 gals. oil, 1000# sand

Casing Tubing Date first new

Press. 0 Press. 0 oil run to tanks March 15, 1960

Oil Transporter NONE

Gas Transporter

Remarks: This well would not flow. Two workovers were performed to decrease water percent with no success. Pumping unit was installed and operated for approx. 3 months. Total oil accumulated - approx. 67 bbls. oil.

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved: OCT 3 1960, 1960 Curtis Hankamer
(Company or Operator)

OIL CONSERVATION COMMISSION

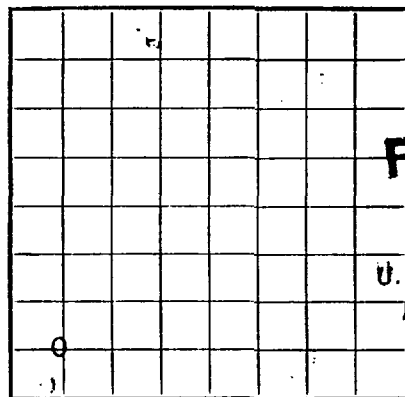
By: Phil C. Hankamer (Signature)
Title: Engineer

Send Communications regarding well to:

Name: Curtis Hankamer

Address: 1422 Bank of the Southwest Building

Title: Oil & Gas Inspector



LOCATE WELL CORRECTLY

RECEIVED

UNITED STATES

RECEIVED

NOV 25 1959

NOV 27 1959

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

O. C. C.
ARTESIA, OFFICE**LOG OF OIL OR GAS WELL**

Company Curtis Hankamer Address 1422 Bank of the Southwest Building
 Lessor or Tract NM-031375-A Field Brushy-Draw State New Mexico
 Well No. 1 "AT" Sec. 18 T. 26S R. 30E Meridian NM PM County Eddy
 Location 660 ft. [N.] of S. Line and 660 ft. [E.] of W. Line of Section 18 Elevation _____
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon
 so far as can be determined from all available records.

Signed _____

Phil C. HankamerTitle Petroleum EngineerDate October 27, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling 1-14, 19 59 Finished drilling 1-25, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3324 to 3366 No. 4, from _____ to _____
 No. 2, from 3386 to 3426 No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8	32	8	-	317.50	Tex. Pattern	-	-	-	Surface cas
4 1/2	9.50	8	Long Star	3448.50	Howco	(WO)	3331	3343	Prod. Str
							3356	3356	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	317.50	100 sxs. / 4% gel.	displacement	9#	Pressure applied to plug
		50 sxs. neat			
4 1/2	3448	200 sxs. 50-50 pozmix	displacement	10#	" " " "
		1 2% gel.			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 3450 feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

1-14, 1959 Put to producing 1-30, 1959

The production for the first 24 hours was est. 50 barrels of fluid of which 1 % was oil; _____ % emulsion; 99 % water; and _____ % sediment. Gravity, °Bé. Not run

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

J. F. Fry, Driller C. M. Rozell, Driller

L. W. Terrell, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	182	182	Red Lime
182	321	139	" "
562	785	223	Shale w/ lime streaks, gyp, anhydrite
785	1192	407	anhydrite, gyp, shale
1192	1303	111	anhydrite and gyp
1303	1474	171	anhydrite, salt and gyp
1474	1587	113	anhydrite
1587	1628	41	anhydrite and shale
1628	1732	104	"
1732	1769	37	"
1769	1771	2	"
1771	1897	126	"
1897	2012	115	"
2012	2053	41	"
2053	2167	114	"
2167	2266	99	"
2266	2327	61	"
2327	2432	105	"
2432	2521	89	"
2521	2570	49	"
2570	2584	14	"
2584	2734	150	salt and anhydrite
2734	2798	64	anhydrite
2798	2826	28	"
2826	3084	258	"

[OVER]

16-43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
3084	3103	19	anhydrite
3103	3148	45	"
3148	3221	73	"
3221	3290	69	lime
3290	3310	20	lime and sd.
OPEN HOLE DST			
1-24-59 TD - 3340'. Packer set @3310' Tested 30' interval. Slight gas to surface in 45 min. Tool Open 90 min. Recovery: 330 oil and gas cut drilling mud 60' salt water.			
BHP DATA IHP - 1870# - IFP - 72# - FFP - 155# - FCIP - 510# (30 min. SI)			
FHP - 1870#			
FROM—	TO—	TOTAL FEET	FORMATION
NOTE: TWO COPIES OF ELECTRIC LOGS AND TWO COPIES OF CORE DATA ATTACHED.			
ENCLOSURES			
LOCAL TIME			
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MARRIAGE AND CEMETARY RECORD

16-43004-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

DATE	FILE NO.	NAME	ADDRESS	CITY	STATE	ZIP

ORIGINAL COMPLETION

Well was perforated @ 3331-43 w/ 6 holes per ft. Interval was fractured with 1000 gals. oil w/ 1/4 sand per gallon after washing perforations w/ 12 bbls. acid. Well flowed back frac-oil and then produced 99% salt water.

(Ինչպես նաև թիվ 17)

OUT OF GIVE BUNDLE OF SOME?
WORKOVER #1

Squeezed interval from 3331-43 w/ 80 axs. neat cement. Perforated casing from 3356-58 w/ 6 holes/ft. Fractured zone with 1000 gals. oil w/ 14 sand/gal. after pumping in 6 bbls. acid. Well flowed frac-oil back and then produced 99% salt water.

WELL SHUT IN.

JAMES EARL RAY, JR.

FOR OF OUR

TELEVISION MEXICO

PHILOSOPHY OF SCIENCE GEOGRAPHY

1994-1995

RECEIVED

00000000000000000000000000000000

1. *Introduction*

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Alaska

Lease No. 031375

Unit 1

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	☒	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 9, 1959, 1959

1 " Federal
Well No. is located 160 ft. from N line and 660 ft. from E line of sec. 18

1/4 1/4 18 30 18
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Alaska Alaska Alaska
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3035 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drill 12 3/4" surface hole to 300' and set 8 5/8" J-55 14' casing with 135 sacks cement. Drill 7 7/8" hole to total depth 3350' and set 4 1/2" J-55 9.50' casing with 200 sacks cement. Perforate Delaware sand. Wash perforations with 250 gallons mud acid and sandfired with 1000 gallons lease crude with 1 pound sand per gallon.

Anticipated mud date: 1-14-59

Drilling Contractor: Leatherwood Drilling Co., Kernit, Texas

Anticipated formation tops: Delaware line: 3290'
Delaware sand: 3280'

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Leatherwood Drilling Co.

Address 1425 West of Southwest Blvd.

Houston, Texas

By Alvin S. Gentry

Title Geological Engineer

ILLEGIBLE

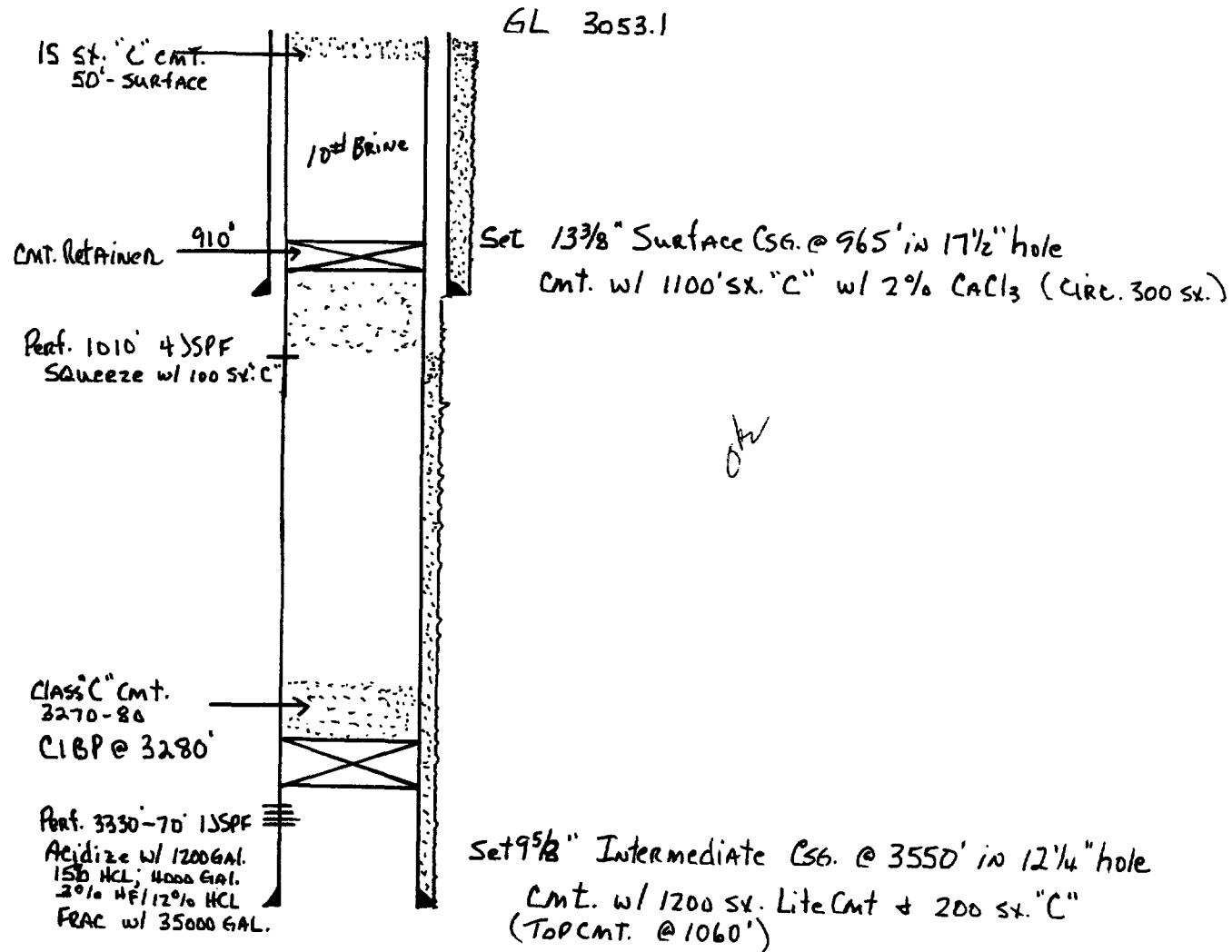


517 CENTRE
P. O. BOX 1262
ARTESIA, NEW MEXICO
88211-1262
(505) 748-3636

Amoco Production Company
Federal AX #1

660' FS 560' FWL SEC. 18 T-26 S R 30 E
Eddy Co. NM Nm 16814

SPUD 6-23-80
SHA 12-30-82



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OIL CONS. COMMISSION

Lower DD
Artesia, NM 88210

Form Approved.
Budget Bureau No. 47-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well ☐ gas well ☐ other PXA
2. NAME OF OPERATOR Amoco Production Company ✓
3. ADDRESS OF OPERATOR P. O. Box 68, Hobbs, New Mexico 88240
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: 660' FSL X 560' FWL, Sec. 18, AT TOP PROD. INTERVAL: (Unit M. SW/4, SW/4) AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

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

SUBSEQUENT REPORT OF:

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RECEIVED
JAN 13 1983

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

OIL & GAS
MINERALS MGMT. SERVICE
ROSWELL, NEW MEXICO

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (GENERAL, NEW MEXICO) in 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.)*

Moved in service unit 12-30-82. Killed well with mud. Pulled rods, pump, and tubing. Ran tubing and CIBP. CIBP set at 3280'. Tested CIBP to 500 psi. Set 100' of class C neat cement on CIBP. Perforated 9-5/8" casing at 1010' with 4 JSPF. Ran tubing and packer. Packer set at 910'. Established injection rate at 3 barrels per minute at 1000 psi. Pulled tubing and packer. Ran tubing and cement retainer. Retainer set at 910'. Pressured up backside to 500 psi. Pumped 100 sacks class C neat cement. Average injection rate 1.6 barrels per minute. Maximum squeeze pressure 550 psi. Reversed out 5 sacks cement. Circulated 70 barrels 10# brine water. Pulled tubing. Spotted 50' surface plug with 15 sacks of class C neat cement. Welded on cap and erected PXA marker. Moved out service unit 1-6-83.
O+6-BLM, R 1-HOU 1-DMF 1-W. Stafford, HOU

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

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

SIGNED Mark Freeman TITLE Ast. Adm. Analyst DATE 1-12-83

APPROVED (This space for Federal or State office use)
(Orig. Seal) PETER W. CHESTER
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:
MAR 9 1983
FOR
JAMES A. GILLHAM
DISTRICT SUPERVISOR *See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYNM OIL & GAS COMMISSION
Artesia, NM 88210
Instructions on reverse sideForm approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL ☒	GAS WELL ☐	DRY ☐	Other ☐										
b. TYPE OF COMPLETION:		NEW WELL ☒	WORK OVER ☐	DEPT-EN ☐	PLUG BACK ☐	DIFF. RESVR. ☐	Other ☐								
2. NAME OF OPERATOR Amoco Production Company						5. LEASE DESIGNATION AND SERIAL NO. NM 16814									
3. ADDRESS OF OPERATOR P. O. Box 68, Hobbs, NM 88240						6. IF INDIAN, ALLOTTEE OR TRIBE NAME RECEIVED									
4. LOCATION OF WELL (Report location clearly and in accordance with State requirements)* At surface 660' FSL X 560' FWL, Sec. 18 At top prod. interval reported below (Unit M, SW/4, SW/4) At total depth						7. UNIT AGREEMENT NAME FEB 15 1980									
14. PERMIT NO. ROSWELL, NEW MEXICO						8. FARM OR LEASE NAME Federal AX O.C.I.									
15. DATE SPUDDED 6-23-80						9. WELL NO. 1									
16. DATE T.D. REACHED 7-3-80						10. FIELD AND POOL, OR WILDCAT Brushy Draw Delaware									
17. DATE COMPL. (Ready to prod.) 8-29-80						11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA 18-26-30									
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3053.1 GR						12. COUNTY OR PARISH Eddy									
19. ELEV. CASINGHEAD						13. STATE NM									
20. TOTAL DEPTH, MD & TVD 3550'		21. PLUG, BACK T.D., MD & TVD 3453'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY	ROTARY TOOLS X	CABLE TOOLS							
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3330'-3370' Delaware								25. WAS DIRECTIONAL SURVEY MADE							
26. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Neutron Density & Dual Laterolog								27. WAS WELL CORED							
28. CASING RECORD (Report all strings set in well)															
CASINO SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED					
13-5/8		48#		600'		17-1/2"		Circ. to surf.		300					
9-5/8		36#		3500'		12-1/4"		3500'-1060'							
29. LINER RECORD										30. TUBING RECORD					
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		SIZE	DEPTH SET (MD)	PACKER SET (MD)			
				ACCEPTED FOR RECORD											
31. PERFORATION RECORD (Interval, size and number) FEB 12 1982 U.S. GEOLOGICAL SURVEY POSWELL, NEW MEXICO										32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
										DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
										3330-3370		1200 gal. 15% HCL			
												4000 gal. 3% HF/12% HCL			
												35000 gal. YF3PSD			
33. PRODUCTION															
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						WELL STATUS (Producing or shut-in)							
8-4-80		Flowing						SI							
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.		WATER—BBL.		GAS-OIL RATIO	
8-29-80		24		22/64				0		0		0			
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.		OIL GRAVITY-API (CORR.)			
18#		0				0		0		0					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)										TEST WITNESSED BY					
35. LIST OF ATTACHMENTS															
I hereby certify that the foregoing and attached information is complete and correct as determined from all available records															
SIGNED		Mark Freeman						TITLE		Assist. Admin. Analyst		DATE		12-17-81	

*(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 33.

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

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

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
				NAME	MEAS. DEPTH
Delaware	3330	3370	Gas and Oil	Anhydrite	900
				Delaware Lime	3310
				Delaware Sand	3370
					TRUE VENT. DEPTH

Form 9-331
Dec. 1973Form Approved.
Budget Bureau No. 42-R1424UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well ☒ gas well ☐ other ☐ SEP 15 1980

2. NAME OF OPERATOR ☒ O. C. D.
Amoco Production Company

3. ADDRESS OF OPERATOR
P. O. Box 68 Hobbs, NM 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 560' FWL, Sec. 18
AT TOP PROD. INTERVAL: (Unit M, SW/4, SW/4)
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

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

SUBSEQUENT REPORT OF:

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RECEIVED

AUG 20 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

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

Swab tested two days and recovered small amount of oil and small amount of gas. Fraced interval 3330'-3370' with 35,000 gal. Dowell's YF3PSD fracturing fluid with additives. Currently flow testing.

0+4-USGS, A

1-Hou

1-Susp

1-LBG.

1-Wayne Stafford, Hou

Subsurface Safety Valve: Manu. and Type _____

Set @ _____ Ft.

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

SIGNED Bob Davis TITLE Admin. Analyst DATE 8-19-80

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:TITLE ACCEPTED FOR RECORDB. Chester

SEP 9 1980

*See Instructions on Reverse Side
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

5. LEASE

NM-16814

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal AX

9. WELL NO.

10. FIELD OR WILDCAT NAME

Brushy Draw Delaware

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

18-26-30

12. COUNTY OR PARISH

Eddy

13. STATE

NM

14. API NO.

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

3053.1 GR

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED

1. oil ☒ gas ☐ other

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

P. O. Box 68 Hobbs, NM 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 660' FSL & 560' FWL, Sec. 18
AT TOP PROD. INTERVAL: (Unit M, SW/4, SW,4)
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) ☐

SUBSEQUENT REPORT OF:

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RECEIVED

AUG 13 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

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

Moved in service unit 7-31-80. Perforate 3330'-3370' with one JSPF. Ran tubing, packer, and tailpipe. Set packer at 3027' and tailpipe at 3280'. Acidized perfs with 1200 gal. 15% HCL acid with additives and 4000 gal. 3% HF/12% HCL acid. Currently swab testing.

ACCEPTED FOR RECORD

AUG 15 1980

U.S. GEOLOGICAL SURVEY

ROSWELL, NEW MEXICO

1-Wayne Stafford, Hou

0+4- USGS, A

1-Hou

1-Susp

1-LBG

Subsurface Safety Valve: Manu. and Type

Set @ _____ Ft.

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

SIGNED Chilton Young TITLE Admin. Supervisor DATE 8-11-80

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
Amoco Production Company ✓
3. ADDRESS OF OPERATOR
P. O. Box 68 Hobbs, NM 88240
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL X 560' FWL, Sec. 18
AT TOP PROD. INTERVAL: (Unit M, SW/4, SW/4)
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

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

SUBSEQUENT REPORT OF:

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5. LEASE
NM-16814
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Federal AX
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
Brushy Draw Delaware
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
18-26-30
12. COUNTY OR PARISH
Eddy
13. STATE
NM
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
3053.1 GR

RECEIVED

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

JUL 14 1980

JUL 11 1980

O. C. D.
ARTESIA, OFFICE

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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.)*

Drilled to a TD of 3550' and ran 9-5/8" casing set at 3550'. Cemented with 1200 SX Lite cement with 14/# Flocele/SX and 200 SX Class C cement. Plugged down at 4:00 a.m. 7-4-80. Cement did not circulate. Ran temp. survey and found top of cement at approx. 1060'. Currently waiting on completion unit.

0+4-USGS, A 1-Hou 1-Susp 1-LBG
Subsurface Safety Valve: Manu. and Type Set @ Ft.

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

SIGNED Bob Laws TITLE Admin. Analyst DATE 7-9-80

(This space for Federal or State office use)

APPROVED BY (Orig. Sgd.) PETER W. CHESTER TITLE ACTING DISTRICT ENGINEER DATE JUL 11 1980
CONDITIONS OF APPROVAL, IF ANY:

N.M. C.D. COPY
UNITED STATES

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil ☒ gas ☐ other ☐
well well
2. NAME OF OPERATOR
Amoco Production Company
3. ADDRESS OF OPERATOR
P. O. Box 68 Hobbs, NM 88240
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 560' FWL, Sec. 18
AT TOP PROD. INTERVAL: (Unit M, SW/4, SW/4)
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

5. LEASE
NM-16814
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Federal AX
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
Brushy Draw Delaware
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
18-26-30
12. COUNTY OR PARISH
Eddy
13. STATE
NM
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
3053.1 GR

RECEIVED

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

JUL 14 1980

O. C. D.

ARTESIA, OFFICE

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

On 6-23-80, Verna Drilling Co. (Rig #12) spudded a 17-1/2" hole at 7:00 p.m. Drilled to a TD of 965' and ran 13-3/8" casing set at 965'. Cemented with 1100 SX Class C cement with 2% KCL. Plugged down at 6:50 a.m. 6-25-80. Circulated 300 SX. WOC 20 hrs. Tested casing with 600# for 1 hr. Test OK. Reduced hole to 12-1/4" and resumed drilling.

0+4-USGS, A 1-Hou 1-Susp 1-LBG

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

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

SIGNED Bob Laws TITLE Admin. Analyst DATE 7-9-80

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE DISTRICT ENGINEER DATE JUL 11 1980
CONDITIONS OF APPROVAL, IF ANY:

Reference Well "C"



517 CENTRE
P. O. BOX 1262
ARTESIA, NEW MEXICO
88211-1262
(505) 748-3636

Curtis Hankamer

McKenna Fed #2

330' FS ↓ 330' FWL Sec 18 T 26 S R 30 E

Eddy Co. NM NM 16814

Spud 4/27/69

Salt water disposal well - Injecting into Ramsey sd. @ 3319' - 26'

Total depth 3370'

UNITED STATES OIL CONS. COMMISSION
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Artesia, NM 88210

LEASE

Mckinna Federal

NM-16814

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

McKenna Fed.

9. WELL NO.

#2

10. FIELD OR WILDCAT NAME

Brushey Draw Delaware

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

S18, T26S, R30E

12. COUNTY OR PARISH

Eddy County, New Mexico

14. API NO.

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

GR 3053

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil ☐ gas ☐ other ☒ Salt Water Disposal

2. NAME OF OPERATOR

Curtis Hankamer

3. ADDRESS OF OPERATOR

9039 Katy Freeway, Suite 430, Houston, TX 77024

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

330' FS & WL

AT SURFACE:

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

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

RECEIVED BY

APR 1 1986

O. C. D.

ARTESIA, OFFICE

SUBSEQUENT REPORT OF:

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

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

Perforated from 2400-2401', set bridge plug at 2902', mixed 100 sacks 'C' + 8#/sack salt. Pumped 21 barrels cement into formation at 1/2 BPM at 2400 PSI. Shut down for 5 minutes. Held 1800 PSI, pumped 1/4 barrel, Pressure to 2700 SI. Shut down for 5 minutes, held 2700 PSI. Shut well in for 3 hours. Reset packer at 787', pumped into formation, hole in casing at 1202-1225, mixed 150 sacks "C" neat, 50 sacks "C" + 3% CaCl₂. Pumped 45 barrels of cement into formation at 3/4 BPM at 2400 PSI, shut down for 5 minutes, pressure declined to 800 PSI, pumped 1/4 barrel, pressure increased to 1000 PSI, Shut down for 10 minutes, Pressure declined to 800 PSI, Shut down for 5 minutes, pressure declined to 900 PSI, pumped 1/4 barrel, Pressure to 1500 PSI, shut down for 5 minutes, held 1000 PSI, Pumped 1/4 barrel, pressured to 2500 PSI, Shut down for 5 minutes, held 2500 PSI. Continued on other side.

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

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

SIGNED

Gregory A. Neill

TITLE

Supervisor

DATE

3/21/86

(This space for Federal or State office use)

APPROVED BY

CONDITIONAL, IF ANY:

Subject to
Like Approval
by State

ACCEPTED FOR RECORD

DATE

MAR 28 1986

*See Instructions on Reverse Side

CARLSBAD, NEW MEXICO

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Continued from other side.

Bled to 0 PSI and then repressured to 2500 PSI, Held OK. Shut down for Shut down for 36 hours and drilled out cement with 3 7/8" bit to 1981', tested casing to 600 PSI, tested to 600 PSI held OK (State Witnessed), drilled cement from 1981-2403', tested casing to 550 PSI, held OK (State Witnessed), cleaned well and went in hole with tubing and packer, tested casing to 500 PSI, held OK. Put well on disposal, went in hole with and tag sand at 3273, washed casing clean and perforated 4 shots per foot from 3319-3326', returned to disposal. Work started on 1/28/86 completed on 2/22/86.

RECEIVED
APR 11 1986
O.C.D.
ARTESIA, CALIF.

NEW MEXICO OIL CONSERVATION COMMISSION

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

RECEIVED BY

FORM C-1
(Rev 3-55)

SEP 12 1984

O. C. D.
ARTESIA, OFFICE

Name of Company Curtis Hankamer		Address 9039 Katy Freeway, Suite 430					
Lease McKenna Federal	Well No. 2	Unit Letter M	Section 18	Township 26	Range 30		
Date Work Performed 9/1/84 - 9/6/84	Pool				County Eddy County		

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations ☐ Casing Test and Cement Job ☐ Other (Explain):
☐ Plugging ☒ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Pulled and tested tubing, re-dressed packer, replaced 2 jts. of tubing, re-perforate from 3519' to 3323'. Tested tubing to 1000# and packer to 3000#.

Witnessed by Gregory A. Herbst	Position Asst. Supervisor	Company Curtis Hankamer
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FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P B T D	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	

Perforated Interval(s)

Producing Interval

Producing Formation(s)

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Flow MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

Approved by

Title

OIL AND GAS INSPECTOR

OCT - 9 1984

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name

Gregory A. Herbst

Position

Asst. Supervisor

Company

Curtis Hankamer

For Record Only

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP. ATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

WM 031375-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

McKenna Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Brushy Draw (Delaware)

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

Sec. 13, T26S

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

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 ☒ Salt Water Disposal

2. NAME OF OPERATOR
Curtis Hankamer

3. ADDRESS OF OPERATOR
714 Houston Bank & Trust Bldg., Houston, Texas 77002

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

332' from West line and 330' from South line
SW/4 Section 18, T26S, R30E

14. PERMIT NO.

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

GR 3053'

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) Complete Salt Water Disposal Well

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.)*

Plan to inject salt water into interval 3323' - 3326' through tubing with 3 packer set at 3268' with use of salt water pump from gathering system in Brushy Draw (Delaware) field in compliance with "Open Pit" order of New Mexico Conservation Commission.

RECEIVED

OCT 9 1969

O. C. C.
ARTESIA, OFFICE

RECEIVED

OCT-31969

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED Curtis Hankamer TITLE Operator

DATE 10/1/69

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

Set 356.45' 8 5/8"OD 24# New surface pipe. Cemented w/200 sx El Toro 35-D 11" c" w/400# Calcium Chloride. Circulated to surface.

DF 10' Above G.L.
Elev. G.L. 3053'

3370' TD

Set 3370' 4 1/2"OD 9.50# Casing
Optiscoped, Magnetic API Drifted

Cemented w/100 sx Lone Star
CL "c" 5/10 of 1% CFR-2 3#
salt per sack #3 sand mixed 5#
per sack Type "E" float collar
3 centralizers.

Perforated 3323-26' (13 shots -
4 per foot Schlum. Hyper-Jet)

5W Top Rubber
plug.

3370'

RECEIVED
OCT-3-1969
U. S. GEOLOGICAL SURVEY
ARTERIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIP DATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 031375-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

McKenna Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Brushy Draw (Delaware)

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

Sec. 18, T26S, R30E

12. COUNTY OR PARISH

13. STATE

Eddy

New Mexico

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 ☒ Salt Water Disposal

2. NAME OF OPERATOR

Curtis Hankamer ✓

3. ADDRESS OF OPERATOR

714 Houston Bank & Trust Bldg., Houston, Texas 77002

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

See also space 17 below.)
At surface200' from West line and 330' from South line
SW/4 Section 18, T26S, R30E

14. PERMIT NO.

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

GR 3053'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Convert to SW Disposal well

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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.)*

Set 356.45' 8 5/8" OD 24# new surface pipe. Cemented with 200 sacks El Toro 35-B (C)
with 400# Calcium Chloride. Circulated to surface.Set 3370' 4 1/2" OD 9.50# casing Optiscoped, Magnetic API Drifted. Cemented with
100 sacks Lone Star CL "C" 5/10 of 1% CFR-2 3# salt per sack #3 sand mixed 5# per
sack Type "E" float collar, 3 centralizers.Desire to inject salt water into interval 3323'-3326' through tubing with HOWCO
R-3 packer set at 3268' with use of salt water pump from gathering system in Brushy
Draw (Delaware) field in compliance with "Open Pit" Order of New Mexico Conservation
Commission.

Waiting on Federal approval.

RECEIVED

DEC 15 1969

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

DEC 16 1969

D. C. C.
ARTESIA, OFFICE

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

SIGNED

Curtis Hankamer

TITLE

Petroleum Superintendent

DATE

12/9/69

(This space for Federal or State office use)

APPROVED
DEC 15 1969
R. L. BEEKMA

TITLE

DATE

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other Salt Water Disposal

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR

Curtis Hankamer

3. ADDRESS OF OPERATOR

714 Houston Bank & Trust Bldg., Houston, Texas 77002

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

At surface 330' from West line and 330' from South line

SW/4 Section 18, T26S, R30E

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

4/27/69

16. DATE T.D. REACHED

5/3/69

17. DATE COMPL. (Ready to prod.)

5/16/69

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

GR 3053'

19. ELEV. CASINGHEAD

3063'

20. TOTAL DEPTH, MD & TVD

3370'

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

3370'

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOL

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

3323' - 3326'

25. WAS DIRECT
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Borehole Compensated Sonic Log - Gamma Ray

27. WAS WELL CORED

Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
3 5/8" OD	24#	356'	12"	200 sacks	0
4 1/2" OD	9.5#	3370'	7 7/8"	100 sacks	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8" OD	3268'	3268'

31. PERFORATION RECORD (Interval, size and number)

3323' - 3326'

13 3/4" Schlumberger Hyper Jet shots

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

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

33.*

PRODUCTION

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or shut-in)

DATE OF TEST

HOURS TESTED

CHOKE SIZE

PROD'N. FOR
TEST PERIOD

OIL—BBL.

WATER—BBL.

GAS—OIL RATIO

FLOW—TUBING PRESS.

CASING PRESSURE

CALCULATED
24-HOUR RATE

OIL—BBL.

GAS—MCF.

WATER—BBL.

OIL—GAS RATIO (OGR)

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

TEST WITNESSED BY

OCT 8 1969

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

TITLE

Operator

DATE 10/1/69

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 031375-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

McKenna Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Brushy Draw (Dale)

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

Sec. 18, T26S R30E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

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 ☒ Salt Water Disposal

2. NAME OF OPERATOR

Curtis Hankamer

3. ADDRESS OF OPERATOR

714 Houston Bank & Trust Bldg., Houston, Texas 77002

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface330' from West line and 330' from South line
SW/4 Section 18, T26S, R30E

14. PERMIT NO.

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

GR 3053'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Rpt. 8 5/8" & 4 1/2" casing

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 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.)*

Set 356.45' 8 5/8" OD 24# new surface pipe. Cemented with 200 sacks El Toro 35-D CL "c" with 400# Calcium Chloride. Circulated to surface.

Set 3370' 4 1/2" OD 9.50# casing Optiscoped, Magnetic API Drifted. Cemented with 100 sacks Lone Star CL "c" 5/10 of 12 CFR-2 3# salt per sack #3 sand mixed 5# per sack Type "E" float collar 3 centralizers.

RECEIVED
OCT 20 1969
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO
RECEIVED
OCT 21 1969
D. G. C.
ARTESIA, NEW MEXICO

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

SIGNED

E. C. Hankamer

TITLE

Petroleum Superintendent

DATE

10/15/69

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

ACCEPTED FOR RECORD PURPOSES
OCT 20 1969

ACTING District Engineer

*See Instructions on Reverse Side

Reference well "D"



517 CENTRE
P. O. BOX 1262
ARTESIA, NEW MEXICO
88211-1262
(505) 748-3636

Aldridge & Stroud Inc.

Am. Trading Fed. #1

660' FN 660' FWL Sec 18 T 26 S R 30 E

Eddy Co. NM L 06 3233

SPUD 12-14-56

PTA 2-13-57

5 1/2" Cmt. Plug. Cellar

GL 3027'

5 1/2" Cmt. Plug @ 300'

10 3/4" CSG cut off @ 300'

5 1/2" Cmt. Plug @ 948'

1267' 10 3/4" 32# CSG.

CMT W/ 325 54. in unknown hole size

0			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office
Lease No. **IC-063233**
Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Aldridge & Stroud, Inc. **February 13** 19**57**
American Trading & Production Company
 Well No. **1** is located **660** ft. from **[N]** line and **660** ft. from **[E]** line of sec. **18**
NE 1/4 of Section 18 **26 South 30 East**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wilcox **Edley** **New Mexico**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **3027** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Filled w/mud from 1267' to 948'.
 5 sack cement plug @ 948'.
 Filled w/mud to 300'.
 5 sack cement plug @ 300'.
 Filled w/mud to bottom of collar.
 5 sack cement plug in bottom of collar.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Aldridge & Stroud, Inc.**

Address **P. O. Box 962**

Odessa, Texas

By *[Signature]*

Title **Secretary-Treasurer**

U. S. LAND OFFICE

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT **14-063233**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Aldridge & Stroud, Inc.** Address **P. O. Box 962, Odessa, Texas**
 Lessor or Tract **American Trading (14-063233)** Field **Wildcat** State **New Mexico**
 Well No. **1** Sec. **13** T. **26S** R. **30E** Meridian **Section 13** County **Eddy** Elevation **3027**
 Location **660** ft. [N.] of **Line and** [E.] of **Line of** (Denote gas by G)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed *[Signature]*

Date **February 20, 1957** Title **Secretary-Treasurer**

The summary on this page is for the condition of the well at above date.

Commenced drilling **December 14,** 19**56** Finished drilling **February 8,** 19**57**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **None** to No. 4, from to
 No. 2, from to No. 5, from to
 No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to No. 3, from to
 No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10 3/4	324	3	248	300	Ball	300			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	248	325	Ballburton	None	None

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
 Adapters—Material Size

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Cable tools were used from ~~Surface~~ _____ feet to _____ feet, and from _____ feet to _____ feet

Surface **1067-19**

_____ 19 _____ Put to producing _____, 19 _____

Dry & Abandoned 2/13/57 The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD			
FROM—	TO—	TOTAL FEET	FORMATION
0	5	0 5	Cellar
5	100	95	Red Shale
100	168	68	Blue Shale
168	173	5	Sand 1 bailer of water per hr
173	470	297	Blue Shale
470	480	10	Sand
480	586	106	Blue Shale
586	593	7	Sand
593	650	57	Blue Shale
650	690	40	Sandy Shale
690	705	15	Sand
705	727	22	Blue Shale
727	739	12	Sand
739	745	6	Shale
745	765	20	Blue Shale
765	790	25	Sand
790	810	20	Blue Shale
810	826	16	Sand
826	846	20	Blue Shale
846	905	59	Sand
905	915	10	Brown shale
915	925	10	Sand
925	975	50	Blue shale
975	992	17	Anhydrite
992	1011	19	Brown shale
1011	1013	2	Anhydrite & Potash

FORMATION RECORD—CONTINUED

GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
UNITED STATES

FORMATION RECORD—Continued

FROM-	TO-	TOTAL FEET	FORMATION
1015	1073	58	Shale & gyp
1073	1080	7	Shale
1080	1089	9	Shale
1089	1108	19	Shale and anhydrite
1108	1118	10	Yellow shale
1118	1130	12	Sand & anhydrite
1130	1137	7	Anhydrite
1137	1157	20	Sand & gyp
1157	1184	27	Anhydrite & gyp
1184	1186	2	Red shale
1186	1203	17	Anhydrite, red shale, and gyp
1203	1220	17	Shale
1220	1226	6	Sand and anhydrite
1226	1242	16	Potash, anhydrite, sand, and shale
1242	1256	14	Shale
1256	1267	11	Anhydrite
1267	1283	16	Shale
1283	1290	7	Shale
1290	1300	10	Shale
1300	1303	3	Shale
1303	1308	5	Shale
1308	1313	5	Shale
1313	1318	5	Shale
1318	1323	5	Shale
1323	1328	5	Shale
1328	1333	5	Shale
1333	1338	5	Shale
1338	1343	5	Shale
1343	1348	5	Shale
1348	1353	5	Shale
1353	1358	5	Shale
1358	1363	5	Shale
1363	1368	5	Shale
1368	1373	5	Shale
1373	1378	5	Shale
1378	1383	5	Shale
1383	1388	5	Shale
1388	1393	5	Shale
1393	1398	5	Shale
1398	1403	5	Shale
1403	1408	5	Shale
1408	1413	5	Shale
1413	1418	5	Shale
1418	1423	5	Shale
1423	1428	5	Shale
1428	1433	5	Shale
1433	1438	5	Shale
1438	1443	5	Shale
1443	1448	5	Shale
1448	1453	5	Shale
1453	1458	5	Shale
1458	1463	5	Shale
1463	1468	5	Shale
1468	1473	5	Shale
1473	1478	5	Shale
1478	1483	5	Shale
1483	1488	5	Shale
1488	1493	5	Shale
1493	1498	5	Shale
1498	1503	5	Shale
1503	1508	5	Shale
1508	1513	5	Shale
1513	1518	5	Shale
1518	1523	5	Shale
1523	1528	5	Shale
1528	1533	5	Shale
1533	1538	5	Shale
1538	1543	5	Shale
1543	1548	5	Shale
1548	1553	5	Shale
1553	1558	5	Shale
1558	1563	5	Shale
1563	1568	5	Shale
1568	1573	5	Shale
1573	1578	5	Shale
1578	1583	5	Shale
1583	1588	5	Shale
1588	1593	5	Shale
1593	1598	5	Shale
1598	1603	5	Shale
1603	1608	5	Shale
1608	1613	5	Shale
1613	1618	5	Shale
1618	1623	5	Shale
1623	1628	5	Shale
1628	1633	5	Shale
1633	1638	5	Shale
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1713	1718	5	Shale
1718	1723	5	Shale
1723	1728	5	Shale
1728	1733	5	Shale
1733	1738	5	Shale
1738	1743	5	Shale

FORMATION RECORD

DIJIGL

DIJGEL

EWING

Week 10: 10/10/19

It has been said that the people

emission: ---	% water: and ---	% sediment: ---
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...the blockading of the Gulf of Mexico was

13--

7-11-66

0-11E27

COPIES FOR THE PRESIDENT

BOBILA 10012	4	616 PAGE	150M	-----	1666	FO
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TOOLS USED

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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2100142 RECORD

7194-1991

[illegible]

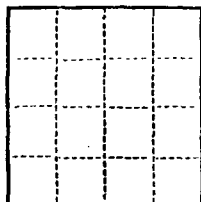
БЛОСЗ УНД УДАБЛЕКЗ

FORD is

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office
Lease No. **10-063233**
Unit



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	☒	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Aldridge & Stroud, Inc. **November 26** 19**56**
American Trading
 Well No. **1** is located **660** ft. from **[N]** line and **660** ft. from **[E]** line of sec. **18**
W 1/4 of Section **18** **26 S** **30 E**
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat **Ed dy** **New Mexico**
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **unknown** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Plan to set: **500' of 10 3/4"** Mudded
1400' of 8 5/8" Mudded
3200' of 5 1/2" Cemented if Produced

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Aldridge & Stroud, Inc.**
 Address **P. O. Box 962**
Olema, Texas
 By **W. H. Stroud Jr.**
 Title **Secretary-Treasurer**

Rge 30 E

12 7
13 18

660
099
Well Location

18

Twp 26 S

C E R T I F I C A T E

This is to certify that I located the Aldridge & Stroud American Trading Co. Federal No. 1 well as shown hereon 660 feet from the north line and 660 feet from the west line of section 18, Twp. 26 S., Rge. 30 E. N. M. P. M.

John Lewis
John Lewis