

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

324 MCKENZIE STREET
SANTA FE, NEW MEXICO 87501

(505) 982-2043
(505) 982-2151 (FAX)

June 24, 2002

Via Fax

Michael E. Stogner
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Stogner:

Regarding your letter of June 13, 2002 (copy enclosed), I have been informed by my client that the subject well has never produced from the Pennsylvanian, even though it was originally drilled to test the Morrow formation; the only production has been from the Grayburg formation. Apparently the pool code used to report production was supplied to Devon by the Artesia District Office. My client has been in touch with the District Office to sort through the confusion, and a new, approved Form C-104 is enclosed. However, the District Office will not approve a new pool code nor allow the well to produce until an unorthodox location has been approved.

The well is not in a designated Grayburg pool. The nearest shallow gas production is from the Vandagriff-Keyes (Queen) Gas Pool, in the EM S27-16S-28E.

Please let me know if you need additional information to process this application. Thank you.

Very truly yours,



James Bruce

Attorney for Devon SFS Operating, Inc.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

BETTY RIVERA

Cabinet Secretary

June 13, 2002

Lori Wrotenberg

Director

Oil Conservation Division

Devon SFS Operating, Inc.
c/o James Bruce
P. O. Box 1056
Santa Fe, New Mexico 87504

Re: *Administrative application submitted on June 6, 2002 (application reference No. pk. V0-216135264) for an unorthodox Queen gas well location for Devon SFS Operating, Inc.'s existing Crow Flats "15" Federal Com. Well No. 12 (API No. 30-015-26490) located 2180' FNL & 660' FEL (Unit H) of Section 15, Township 16 South, Range 28 East, NMPM, ~~Chavez~~ ^{Eddy} County, New Mexico (see Attachment "A").*

Dear Mr. Bruce:

I am in receipt of your telefax from this morning (Thursday, June 13, 2002) of a 1991 Completion Report showing that this well was completed in the Premier Sand from 1856 feet to 1874 feet (see Attachment "B"). I was aware of this completion report since I had a copy in the Division's well files here in Santa Fe (see Attachment "C"). This was one reason I called you for confirmation on the proper completed interval on Wednesday evening, June 12, 2002. As I recall, the Premier Sand is within the Grayburg formation. The other reason I called is that the Division's records show 160 acre Wildcat Penn (Gas) production from this well for January, February, and March 2002 (see copies of the Division's ONGARD report as Attachment "D").

Please address these concerns in order to complete this application and, to assure reporting accuracy, please have Devon SFS Operating, Inc. contact the Division's Artesia District Office to either correct, update, or amend the necessary information.

Since the submitted information is insufficient to review at this time, the application was ruled as incomplete on June 13, 2002. Please submit the above stated information by Monday, June 24, 2002.

The Division cannot proceed with your application until the required information is submitted. Upon receipt, the Division will continue to process your application. The additional information can be faxed to (505) 476-3471, or mailed to the Division in Santa Fe. If the necessary information is not submitted, your application will be returned to you.

Should you have any questions concerning this matter, please contact me in Santa Fe at (505) 476-3465. Thank you.

Sincerely,

Michael E. Stogner
Chief Hearing Officer/Engineer

cc: Tim Gum, Supervisor -- NMOCD, Artesia

JUN 21 2002 FRI 01:58 PM OGD DISTRICT II

FAX NO. 15057409720

P. 02

Director I
PO Box 1000, Hobbs, NM 88241-1000
Director II
PO Box 1000, Hobbs, NM 88241-1000
Director III
1000 South Main St., Suite 200, Hobbs, NM 88241
Director IV
1000 South Main St., Suite 200, Hobbs, NM 88241

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
2040 South Main St.
Santa Fe, NM 87505

Form O-144
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED PERMIT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator Name and Address Devon SFS Operating, Inc. 20 N. Broadway, Suite 1000 Oklahoma City, OK 73102-8250		COSEB Number 20305
AP Number 39-916-26499	Well Name W-1000	Well Depth 1000'
Property Code 2000	County Name Cotton	Well Number 1

II. Surface Location

Uplift	Section	Township	Range	East	North	Section	Range	East	North
Uplift	15	T-16S	R-28E		2120'	North	65'	East	Uplift

Bottom Hole Location

Uplift	Section	Township	Range	East	North	Section	Range	East	North
Uplift	15	T-16S	R-28E		2120'	North	65'	East	Uplift

III. Oil and Gas Transporters

Transporter Name OORD 005007	Transporter Address 10 Doria Drive, Box 1000 Midland, TX 79701	POB 20305	CO G	POB 17,571 Condition and Description Condition PE-15-16-28E
------------------------------------	--	--------------	---------	---

IV. Produced Water

Produced Water	Produced Water
----------------	----------------

V. Well Completion Data

Well Name	Well Depth	Well Type	Well Status	Well Completion
1000	1000'	1000'	1000'	1000'

VI. Well Test Data

Well Name	Well Depth	Well Type	Well Status	Well Completion
1000	1000'	1000'	1000'	1000'

OIL CONSERVATION DIVISION

Approved by: *[Signature]*
Title: *[Title]*
Date: *[Date]*

Approved by: *[Signature]*
Title: *[Title]*
Date: *[Date]*

NSL Required to Proceed



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

BETTY RIVERA

Cabinet Secretary

June 13, 2002

Lori Wrotenbery

Director

Oil Conservation Division

Devon SFS Operating, Inc.
c/o James Bruce
P. O. Box 1056
Santa Fe, New Mexico 87504

Re: Administrative application submitted on June 6, 2002 (*application reference No. pKRV0-216135264*) for an unorthodox Queen gas well location for Devon SFS Operating, Inc.'s existing Crow Flats "15" Federal Com. Well No. 12 (*API No. 30-015-26490*) located 2180' FNL & 660' FEL (Unit H) of Section 15, Township 16 South, Range 28 East, NMPM, Chaves County, New Mexico (*see Attachment "A"*).

Dear Mr. Bruce:

I am in receipt of your telefax from this morning (Thursday, June 13, 2002) of a 1991 Completion Report showing that this well was completed in the Premier Sand from 1856 feet to 1874 feet (see Attachment "B"). I was aware of this completion report since I had a copy in the Division's well files here in Santa Fe (see Attachment "C"). This was one reason I called you for confirmation on the proper completed interval on Wednesday evening, June 12, 2002. As I recall, the Premier Sand is within the Grayburg formation. The other reason I called is that the Division's records show 160-acre Wildcat Penn (Gas) production from this well for January, February, and March 2002 (see copies of the Division's ONGARD report as Attachment "D").

Please address these concerns in order to complete this application and, to assure reporting accuracy, please have Devon SFS Operating, Inc. contact the Division's Artesia District Office to either correct, update, or amend the necessary information.

Since the submitted information is insufficient to review at this time, the application was ruled as incomplete on June 13, 2002. Please submit the above stated information by Monday, June 24, 2002.

The Division cannot proceed with your application until the required information is submitted. Upon receipt, the Division will continue to process your application. The additional information can be faxed to (505) 476-3471, or mailed to the Division in Santa Fe. If the necessary information is not submitted, your application will be returned to you.

Should you have any questions concerning this matter, please contact me in Santa Fe at (505) 476-3465. Thank you.

Sincerely,

Michael E. Stogner
Chief Hearing Officer/Engineer

cc: Tim Gum, Supervisor – NMOCD, Artesia

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] ☒ Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] ☐ Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] ☐ Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] ☐ Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

James Bruce
 Print or Type Name

JAMES BRUCE
 P.O. BOX 1056
 SANTA FE, NM 87504

S

Attachment

"A"

Attorney for Applicant
 Title

jamesbruc@aol.com
 e-mail Address

Date

02 JUN -6 PM 4:50
 OIL CONSERVATION DIV.

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

324 MCKENZIE STREET
SANTA FE, NEW MEXICO 87501

(505) 982-2043
(505) 982-2151 (FAX)

June 6, 2002

Michael E. Stogner
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Stogner:

Devon SFS Operating, Inc. ("Devon") applies for administrative approval of an unorthodox gas well location for the following well:

<u>Well:</u>	Crow Flats 15 Fed. Com. Well No. 1 (30-015-26490)
<u>Location:</u>	2180 feet FNL & 660 feet FEL
<u>Well Unit:</u>	NE¼ of Section 15, Township 16 South, Range 28 East, N.M.P.M., Eddy County, New Mexico

The well was drilled to test the Morrow formation, but was unsuccessful and was completed uphole in the Queen formation as a gas well. Well spacing is 160 acres, with wells to be no closer than 660 feet to a quarter section line.

A land plat is attached as Exhibit A. The lease covering the SE¼ of Section 15 also covers 120 acres within the well unit. The remaining 40 acres (the SW¼NE¼) is owned by Devon. A listing of offset working interest owners is attached as Exhibit B. A copy of the notice letter sent to the offsets is attached as Exhibit C.

Please call me if you need any further information on this matter.

Very truly yours,



James Bruce

Attorney for Devon SFS Operating, Inc.

Interest Owner	Address1	Address2	Cert. No. 7001 0360 000 2116	WI	Fax No.	
Nearburg Exploration Company, L.L.C.	3300 N. A", Bldg. 2, #120	Midland, TX 79705				
Turnco, Inc.	P.O. Box 1240	Graham, TX 76046				
H.M. Bettis	500 W. Texas, Suite 830	Midland, TX 79701				
Apache Corporation	P.O. Box 840133	Dallas, TX 75284				
L.E. Opperman	500 W. Texas, Suite 830	Midland, TX 79701				
RBM-CO	2201 North Palm Street	Little Rock, Arkansas 72207				

Well Name: Crow Flat 15 Fed. Com. #1

Location: Section 15, T-16-S, R-28-E

Proposal:

Devon Energy's WI



JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

324 MCKENZIE STREET
SANTA FE, NEW MEXICO 87501

(505) 982-2043
(505) 982-2151 (FAX)

June 6, 2002

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

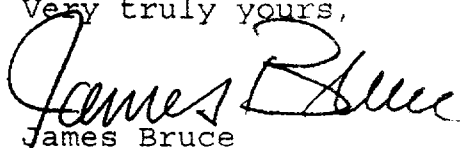
To: Persons on Exhibit A

Ladies and Gentlemen:

Enclosed is a copy of an application, filed with the New Mexico Oil Conservation Division by Devon SFS Operating, Inc., requesting administrative approval of an unorthodox gas well location in the Queen formation in the NE¼ of Section 15, Township 16 South, Range 28 East, NMPM, Eddy County, New Mexico. If you object to the well's location, you must notify the Division in writing no later than Wednesday, June 26, 2002 (1220 South St. Francis Drive, Santa Fe, New Mexico 87505; attention: Michael E. Stogner). Failure to object will preclude you from contesting this matter at a later date.

If you do not object to the location, please so indicate by signing below, and returning the letter to me. Thank you.

Very truly yours,


James Bruce

Attorney Devon SFS Operating, Inc.

I/we do not object to the unorthodox location.

Name: _____

By: _____

Date: _____



EXHIBIT A

Nearburg Exploration Company, L.L.C.
Building 2, Suite 120
3300 North "A" Street
Midland, Texas 79705

Turnco, Inc.
P.O. Box 1240
Graham, Texas 76046

H.M. Bettis
Suite 830
500 West Texas
Midland, Texas 79701

Apache Corporation
P.O. Box 840133
Dallas, Texas 75284

L.E. Opperman
Suite 830
500 West Texas
Midland, Texas 79701

RBM-CO
2201 North Palm Street
Little Rock, Arkansas 72207

JAMES BRUCE
Attorney at Law
Post Office Box 1056
Santa Fe, New Mexico 87504
Telephone: (505) 982-2043
Fax: (505) 982-2151

FAX COVER SHEET

DELIVER TO: Michael E. Stogner

COMPANY: Oil Conservation Division

CITY: Santa Fe, New Mexico

FAX NUMBER: (505) 476-3471

NUMBER OF PAGES: 3 (Including Cover Sheet)

DATE SENT: 6/13/02

MEMO: Mike: Regarding the Devon NSL, enclosed is the completion report I have in my file showing a Queen completion.

CONFIDENTIALITY NOTICE

This transmission contains information which may be confidential and/or legally privileged. The information is intended only for the above-named recipient. If you are not the intended recipient, copying or distribution of the information is prohibited. If you have received this transmission in error, please call us at the above number and return the document by United States mail. Thank you.

Attachment

"B"

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ON DIVISION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY WELL
2. TYPE OF COMPLETION: ☒ NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. SERVICE ☐ OTHER3. NAME OF OPERATOR: Bettis, Boyle & Stovall
4. ADDRESS OF OPERATOR: P. O. Box 1240, Graham, Texas 76046
5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):
At surface: 2180' FNL & 660' FEL of Sec. 15
At top prod. interval reported below: 2180' FNL & 660' FEL
At total depth: 2180' FNL & 660' FEL14. PERMIT NO. DATE ISSUED: MAR 11 1991
O. C. D.
ARTESIA, OFFICE15. DATE STUDDER: 10/20/90 16. DATE T.D. REACHED: 11/18/90 17. DATE COMPL. (Ready to prod.): 1/25/91
18. ELEVATIONS (OF, RMR, RT, GR, ETC.): 3577' GR 3601' KB20. TOTAL DEPTH, MD & TVD: 9.700 21. PLUG BACK T.D., MD & TVD: 1,940' (CIBP) 22. IF MULTIPLE COMPLEMENTS, HOW MANY: NA
23. INTERVALS DRILLED BY: ROTARY TOOLS: All CABLE TOOLS:24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD):
1856' - 1874' Premier Sand

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL-MG, SFT SD-DSNL

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT CURED
13-3/8	48	358	17 1/2	350 sacks	None
8-5/8	32	2000	11	1,130 sacks	None

LINER RECORD				TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	PACKER CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
					2-3/8	1815.32

PERFORATION RECORD (Interval, size and number)		ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		
1856 - 1874	250 gallons 10% Acetic Acid		
	2700 gallons MOD 101 Acid		

PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
NA		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2/14/91	24	1/2"		-0-	510	-0-	
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
65	Pkr.		-0-	510	-0-		

34. DISPOSITION OF GAS (Hold, used for fuel, vented, etc.): To be sold. Presently waiting on pipeline connection

35. LIST OF ATTACHMENTS: DST report, 4-Point test, deviation survey, logs.

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

SIGNED: [Signature] TITLE: Agent (Cond. Engr.) DATE: 2/27/91

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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.
Lower (Abo)	6521'	6641'	DST No. 1 (Conventional Test) Recovered 60' of drilling mud. Sample Chamber recovered 2600 cc drilling mud. 30 psig. See attached for further information.

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Yates	416'		416'
Queen	1123'		1123'
San Andres	1908'		1908'
Glorieta	3360'		3360'
Tubb	4618'		4618'
Abo	5362'		5362'
Wolfcamp	6768'		6768'
Cisco	7692'		7692'
Canyon	8074'		8074'
Strawn	8651'		8651'
Atoka	9066'		9066'
Morrow	9314'		9314'
Chester	9418'		9418'

ATTACHMENT

“C”

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONSERVATION DIV
811 S. 1st ST.
ARTESIA, NM 88001
FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Santa Fe Energy Resources, Inc.

3. Address and Telephone No.
550 W. Texas, Suite 1330, Midland, TX 79701 915/687-3551

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2180' FNL & 660' FEL, Sec. 15, T-16S, R-28E

5. Lease Designation and Serial No.
NM-71766

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Crow Flats "15"
Fed Com #1

9. API Well No.
30-015-26490

10. Field and Pool, or exploratory Area
Wildcat

11. County or Parish, State
Eddy NM

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Request SI status
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Santa Fe Energy Resources, Inc. respectfully requests that this well be given a one year extension of its current shut-in status. The well is completed and capable of production, however it is currently uneconomic to connect to pipeline.

Santa Fe continues to evaluate the viability of development in this area. An additional well is planned when gas prices increase.

RECEIVED

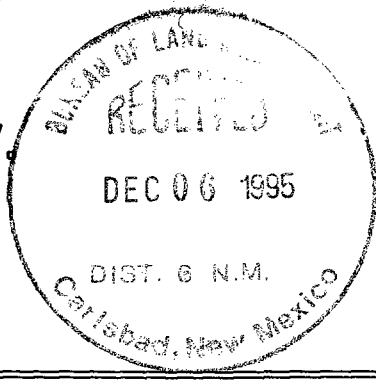
JAN 22 1996

OIL CON. DIV.

Approved For 12 MONTH PERIOD DIST. 2

Ending 12/4/96

This Approval of Temporary Abandonment Expires 12/2001



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

Signed Sherry McCullough Title Sr. Production Clerk Date 12/4/95

(This space for Federal or State office use)

Approved by Orig. signed by Adam S. Smith Title Petroleum Engineer Date 1/19/96

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

2

Form 3160-5
(June, 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION
Drawer DD
Artesia, NM 88210

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Santa Fe Energy Operating Partners, L.P. ✓

3. Address and Telephone No.

550 W. Texas, Suite 1330, Midland, Texas 79701

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2180' FNL and 660' FEL, Sec. 15, T-16S, R-28E

5. Lease Designation and Serial No.

NM-71766

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Crow Flats 15 Fed Com #3

9. API Well No.

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Eddy Co., NM

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

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Request SI status

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Santa Fe Energy Operating Partners, L.P. respectfully requests that this well be given a one year extension of its current shut-in status. The well is completed and capable of production, but it is currently uneconomic to connect to pipeline. Santa Fe plans to drill an offset well in Mid-1994 to evaluate the viability of further field development and pipeline connection.

The well was tested for mechanical integrity on January 7, 1993.

APPROVED FOR 12 MONTH PERIOD
ENDING 5/17/95

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

Signed

Title Sr. Production Clerk

Date May 17, 1994

(This space for Federal or State office use)

(ORIG. SGD.) JOE G. LARA

Approved by

Title

PETROLEUM ENGINEER

Date

6/7/94

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

RECEIVED
APR 15 10 44 AM '93

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
BLL/Lease Designation and Serial No.
NM-71766

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

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Santa Fe Energy Operating Partners, L.P. ✓

3. Address and Telephone No.
550 W. Texas, Suite 1330, Midland, TX 79701 (915) 687-3551

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2180' FNL and 660' FEL, Sec. 15, T-16S, R-28E

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Crow Flats 15 Fed Com #1

9. API Well No.

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Eddy Co., NM

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Request SI status	<input type="checkbox"/> Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Santa Fe Energy Operating Partners, L.P. respectfully requests that this well be given a shut-in status for one year. The well is completed and capable of production, however, the high cost of installing a gas transmission line to the well location is uneconomic at this time.

This well was tested for mechanical integrity on January 7, 1993, and the test results submitted for approval on January 12, 1993.

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

Signed [Signature] Title Sr. Production Clerk Date April 14, 1993

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA Title PETROLEUM ENGINEER Date APR 28 1993
Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

51

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.	
2. NAME OF OPERATOR SANTA FE ENERGY OPERATING PARTNERS, L.P.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 2327 Carlsbad, New Mexico 88221-2327 505-887-0821		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 2180' FNL & 660' FEL		8. FARM OR LEASE NAME Crowflats 15 Federal	
14. PERMIT NO.		9. WELL NO. #1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 15 T16S R28E	
		12. COUNTY OR PARISH Eddy	
		13. STATE NM	

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

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

1. Tested for mechanical integrity test on annulus
2. Pressure annulus to 500# with Chart recorder attached.
3. Test for 30 minutes per BLM guidelines
4. See attached chart.



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

SIGNED R.L. Felt Stull TITLE Area Superintendent DATE January 12, 1993

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

(November 1983)
(formerly 9-330)

OIL CONS. COMMISSION

UNITED STATES

SUBMIT IN DUPLICATE*

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

57

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ **RECEIVED**
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESRV. ☐ Other ☐

2. NAME OF OPERATOR **Bettis, Boyle & Stovall** *South E. Energy*

3. ADDRESS OF OPERATOR **P. O. Box 1240, Graham, Texas 76046**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **2180' FNL & 660' FEL of Sec. 15**

At top prod. interval reported below **2180' FNL & 660' FEL**

At total depth **2180' FNL & 660' FEL**

14. PERMIT NO. DATE ISSUED **MAR 11 1991**
O. C. D. ARTESIA, OFFICE

15. DATE SPUDDED **10/20/90** 16. DATE T.D. REACHED **11/18/90** 17. DATE COMPL. (Ready to prod.) **1/25/91** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **3577' GR 3601' KB**

20. TOTAL DEPTH, MD & TVD **9.700** 21. PLUG BACK T.D., MD & TVD **1,940' (CIBP)** 22. IF MULTIPLE COMPL. HOW MANY* **NA** 23. INTERVALS DRILLED BY **ROTARY TOOLS** **All** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
1856' - 1874' Premier Sand

26. TYPE ELECTRIC AND OTHER LOGS RUN **DLL-MG, SFT SD-DSNL**

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	358	17 1/2	350 sacks	None
8-5/8	32	2000	11	1,130 sacks	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	1815.32	1809.57

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
1856' - 1874' (36 holes) (0.5" dia)		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		1856 - 1874	250 gallons 10% Acetic Acid
			2700 gallons MOD 101 Acid

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
NA		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2/14/91	24	1/2"	→	-0-	510	-0-	---
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
65	Pkr.	→	-0-	510	-0-	---	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **To be sold. Presently waiting on pipeline connection**

35. LIST OF ATTACHMENTS **DST report, 4-Point test, deviation survey, logs.**

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED *James F. Barrett* TITLE **Agent (Cons. Engr.)** DATE **2/27/91**

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Lower (Abo)	6521'	6641'	DST No. 1 (Conventional Test) Recovered 60' of drilling mud. Sample Chamber recovered 2600 cc drilling mud. 30 psig. See attached for further information.	Yates Queen San Andres Glorieta Tubb Abo Wolfcamp Cisco Canyon Strawn Atoka Morrow Chester	416' 1123' 1908' 3360' 4618' 5362' 6768' 7692' 8074' 8651' 9066' 9314' 9418'	416' 1123' 1908' 3360' 4618' 5362' 6768' 7692' 8074' 8651' 9066' 9314' 9418'

38. GEOLOGIC MARKERS

WELL Crow Flats #1

LOCATION Sec. 15-16S-28E Eddy County, NM
(Give Unit, Section, Township, And Range)

OPERATOR Bettis, Boyle & Stovall c/o O'Briant Engineering
P. O. Box 10487 Midland, TX 79702

DRILLING CONTRACTOR Exeter Drilling Company

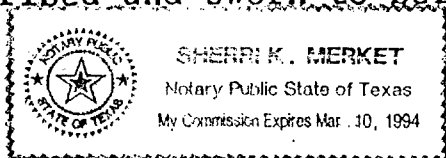
The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
<u>1° 358'</u>	<u>3/4° 7,922'</u>	<u></u>
<u>3/4° 450'</u>	<u>1° 8,736'</u>	<u></u>
<u>1 1/4° 937'</u>	<u>1 1/4° 9,347'</u>	<u></u>
<u>1° 1,411'</u>	<u>1° 9,700'</u>	<u></u>
<u>1/4° 2,000'</u>	<u></u>	<u></u>
<u>1° 2,501'</u>	<u></u>	<u></u>
<u>3/4° 2,995'</u>	<u></u>	<u></u>
<u>1/4° 3,527'</u>	<u></u>	<u></u>
<u>3/4° 4,002'</u>	<u></u>	<u></u>
<u>1/2° 4,498'</u>	<u></u>	<u></u>
<u>3/4° 4,826'</u>	<u></u>	<u></u>
<u>1/4° 5,314'</u>	<u></u>	<u></u>
<u>3/4° 5,785'</u>	<u></u>	<u></u>
<u>1 1/2° 6,420'</u>	<u></u>	<u></u>
<u>1 1/4° 6,825'</u>	<u></u>	<u></u>
<u>1 1/4° 7,331'</u>	<u></u>	<u></u>

Drilling Contractor Exeter Drilling Company

By Bruce D. Houtchens
Bruce D. Houtchens, Vice President-Southern Division

Subscribed and sworn to before me this 5th day of December, 1993



Sherri K. Merket
Notary Public Sherri K. Merket

My Commission Expires: 3-10-94 Midland County Texas

RECEIVED

BETTIS BOYLE AND STOVALL
CROWFLATS "15" FED COM NO. 1
EDDY COUNTY, NEW MEXICO

DST NO. 1 (Conventional) from 6521' - 6641' (120') (LOWER ABO)

Initial Flow: 30 minutes
Tool opened with weak blow and stayed same
throughout flow period (barely skim bucket).

Initial Shut-in: 60 minutes

Second Initial Flow: 60 minutes
Open tool with no blow and remained dead through-
out flow period.

Final Shut-in: 120 minutes.

RECOVERY

Drill Pipe: Recovered 60' of drilling mud.

Sample Chamber: 30 psig, recovered 2600 cc drilling mud.
Sample R.W. 33,240 ppm Titrate
Pit sample 34,260 ppm chlorides.

PRESSURES (FIELD)

	TOP Chart	Bottom Chart
INITIAL HYDROSTATIC:	3012 psig	2973 psig
INITIAL FLOW:	19 - 19 psig	16 - 16 psig (30 minutes)
INITIAL SHUT-IN:	167 psig	101 psig (60 minutes)
FINAL FLOW:	41 - 41 psig	34 - 34 psig (60 minutes)
FINAL SHUT-IN:	167 psig	101 psig (120 minutes)
FINAL HYDROSTATIC:	3012 psig	2973 psig

Bottom hole Temperature 114°F.

DRILL STEM TESTING OPERATION REPORT

ILLEGIBLE

Location Hobbs, New Mexico Date 11/16 1990 Field Ticket 25611012
 Operator Exeter Drilling Company (Bettis Boyle & Stovall)
200 North Leake Ave. #1220
Midland, Texas 79701
 Well Name Crow Flats #15 Federal Comm #1 DST No. #1 Est. Porosity _____
 Net Fr. Pay _____
 Test Interval 44-01 Top Choke 14" Bottom Choke 3N" Flow No. 1 _____ 30 Min.
 Shut-in No. 1 _____ 60 Min.
 Flow No. 2 _____ 60 Min.
 Shut-in No. 2 _____ 120 Min.
 Flow No. 3 _____ Min.
 Shut-in No. 3 _____ Min.
 Bottom Hole Temp. 114.0
 Mud Weight 9.1
 Gravity _____
 Viscosity 30
 Tool Opened @ 6:02 A.M.

Log Run Prior to Test: Yes ☐ No ☒
 ed Hole Size @ Top Pkr. _____ @ Bottom Pkr. _____
 If flow gas NO in _____ mins.
 If flow oil NO in _____ mins.
 If flow water NO in _____ mins.
 did flow, during which flow or shut-in period did gas/fluid reach a surface?
NONE

BOTTOM HOLE SAMPLER

re In Sampler: 20 Pkg.
 Volume of Sampler: 3600 cc.
 Volume of Sample: 3600 cc.
 Was Sample drained? By Eber
0 cc.
0 cc.
2600 cc.
0 cu ft.
0

• R. W. 33240 PPM Titrate
 Gas/Oil Ratio 0
 Up Water R. W. _____
 It Sample R. W. 34,360 PPM

Bottom of Top Packer 6513'
 Bottom of Second Packer 6521'
 Top of Straddle Packer _____
 Top of Fourth Packer _____
 Length of Test Interval 120'
 Test Interval: Anchor 25' Collars 94' DP ☒
 Below Straddle: Anchor _____ Collars _____ DP ☒
 Was tool plugged? NO Was anchor plugged? NO
 Did straddle pkr. hold? _____ Press. below straddle _____
 REMARKS: _____

Test Ran For

Bettis Boyle & Stovall
 P.O. Box 1240
 Graham, Texas 76046

Recorder No. _____ Ran Under Straddle Pkr.

Sp.	No.	Clock	Type	No.	Clock	Type	No.	Clock
1	3980	2682	K-3	18079	20187	K-3	18079	20187
2	3980	2682	Cap. 4850	Loc. 6516'	20187	Cap. 4850	Loc. 6516'	20187
3	3980	2682	Inside 6516'	Outside	48	Inside 6516'	Outside	48
Press.	Field	Corrected	Press.	Field	Corrected	Press.	Field	Corrected
A	3012		IM	2973		IM		
K	3012		FM	2973		FM		
B	19		IF-1	16		IF-1		
C	19		FF-1	16		FF-1		
E	41		IF-2	34		IF-2		
F	41		FF-2	34		FF-2		
H			IF-3			IF-3		
I			FF-3			FF-3		
D	167		SIP-1	101		SIP-1		
G	167		SIP-2	101		SIP-2		
J			SIP-3			SIP-3		

TECHNICIAN

RESERVOIR ANALYSIS? NO

WELL OWNERS REPRESENTATIVE (Please Print Legibly)

P.R. KAYS

No. Final Copies 7

Tom Smith & Albert Bryan

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

EXPEDITES AUGUST 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-71766

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crow Flats "15" Fed Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

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 TO DRILL" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐ 91 DE 26 AM 10 20

2. NAME OF OPERATOR

Bettis, Boyle & Stevall

3. ADDRESS OF OPERATOR

P. O. Box 1240, Graham, Texas 76046

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

2180' FNL & 660' FEL of Sec. 15

14. PERMIT NO.

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

3576.9' GR

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) Completion Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

XX

(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.)

1/22/91: Move in and rig up Pride Well Service Unit. Unloaded and rack tubing, (2012'). Installed 11" X 300 by 9" 3000 tubing head, and 11" X 3000 BOP. Went in the hole with bit and tubing. Tagged at 2001' K.B. Spotted 250 gallons 10% Acetic acid at 1876'.

1/23/91: Pull out of the hole with tubing, collars and bit. Rig up Halliburton Logging Services, ran PDC log from 1993' to 1500' K.B. Ran and set CIBP at 1940' K.B. Perforate with 4" Premium charge casing gun from 1856' - 1874' K.B. with 36 holes (0.5" dia). Ran Baker Full packer, and 56 joints of tubing. Reverse with 6 barrels 2% KCL water. Removed BOP and set packer at 1810' K.B. with 35,000# tension. Displaced 250 gallons 10% acetic acid: Break down pressure at 1200 psig, pumped in at 2.5 BPM at 1340 psig. ISIP 840 psig, in 10 minutes 220 psig, in 35 minutes -0- psig. Total load to recover 16 barrels. Swabbed 2 hours, made 13 runs, 12th run from seating nipple. Recovered estimated 12 barrels load water. Recovered 2-3 gallons (last 2 runs) of water. Show of oil last 8 runs, 2' to 6' gas flare in and out.

1/24/91: 14 hour SITP 855 psig. Open and blew to 25 psig on 3/4" choke in 45 minutes. Very light spray of water with gas after 6 minutes. Made 1 swab run to seating nipple and recovered 1/4 barrel water. Hooked up Halliburton and treated with 2700 gallons MOD 101 acid and 54 ball sealers. Maximum treating pressure 1860 psig, average pressure 1620 psig, maximum rate 5.1 BPM, average injection rate 4.3 BPM. ISIP 1000 psig, in 15 minutes 350 psig. 75 barrels load to recover. Open and bled to pit at 9:00 AM

Continued on reverse side.

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

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

and rigged up swab. Made 15 swab runs in 4 1/2 hours, gas flare after 2nd run, recovered 10-60' of fluid on each of last 10 runs, pulling from seating nipple. Estimated recovery of 15 - 20 barrels load. Layed down swab and flowed to pit on 40/64" choke. At 1:45 PM FTP 32 psig on 40/64" choke, very lite acid water mist. At 2:00 PM same. At 2:30 PM FTP 35 psig, estimated 500 MCF/day. At 3:00 PM FTP 38 psig on 40/64" choke, flowing gas with light mist and pencil stream of water.

/25/91:

8:00 AM well flowing to pit on 40/64" choke, TP 65 psig, estimated 800 MCF/day with a drip of water. Shut in for pressure build up. In 1 minute 205 psig, 2 minutes 280 psig, 3 minutes 365 psig, 4 minutes 444 psig, and in 5 minutes SITP 510 psig. Continuation of shut-in pressures: 10 minutes SITP 710 psig, 15 minutes 780 psig, 30 minutes 840 psig, 45 minutes 845 psig, in 60 minutes 850 psig, in 75 minutes 857 psig, in 90 minutes 859 psig, in 105 minutes 860 psig. Opened well to pit on 40/64" choke at 10:00 AM. At 10:15 AM 67 psig (no fluid), at 10:30 AM 67 psig. Reduced to a 32/64" choke at 10:45 AM FTP 108 psig, at 11:00 AM FTP 109 psig, changed to a 24/64" choke. At 11:15 AM FTP 199 psig, at 11:30 AM FTP 199 psig. Changed choke to 16/64". At 11:45 AM FTP 361 psig, at 12:00 PM FTP 362 psig, at 1:00 PM FTP 365 psig, at 1:45 PM FTP 365 psig.

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator Santa Fe Energy Operating Partners, L.P.	Well API No.
Address 550 W. Texas, Suite 1330, Midland, Texas 79701	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Change of Operator effective Feb. 26, 1991
Change in Operator <input checked="" type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
If change of operator give name and address of previous operator Bettis, Boyle & Stovall, P. O. Box 1240, Graham, TX 76046	

II. DESCRIPTION OF WELL AND LEASE

Lease Name Crow Flats 15 Fed Com	Well No. 1	Pool Name, including Formation Wildcat Morrow	Kind of Lease State, <u>Federal</u> or Fee	Lease No. NM-71766
Location Unit Letter <u>H</u> : <u>2180</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>East</u> Line Section <u>15</u> Township <u>16S</u> Range <u>28E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When?

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

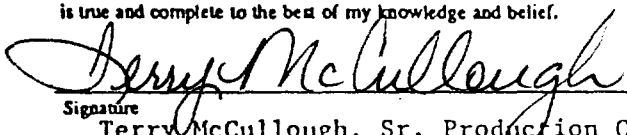
Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE


I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


Signature
Terry McCullough, Sr. Production Clerk
Printed Name
Feb. 26, 1991
Date

915/687-3551
Telephone No.

OIL CONSERVATION DIVISION

Date Approved MAR 6 1991

By 

Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved,
Budget Bureau No. 1004-013
Expires August 31, 1985

SF

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	5. LEASE DESIGNATION AND SERIAL NO. NM-71766
2. NAME OF OPERATOR Bettis, Boyle & Stovall	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1240, Graham, Texas 76046	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 2180' FNL & 660' FEL of Sec. 15	8. FARM OR LEASE NAME Crow Flats "15" Fed Com
14. PERMIT NO.	9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3576.9' GR	10. FIELD AND POOL, OR WILDCAT Wildcat
	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 15, T-15-S, R-28-E
	12. COUNTY OR PARISH Eddy
	13. STATE N.M.

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

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

(Other) Completion Procedure (Premier Sand) XXX

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.)

1. Move-in and rig up completion equipment.
2. Perforate from 1,856-1,874' KB.
3. Acidize as required.
4. Swab/flow to clean-up and test.
5. Fracture treat as with volumes/rates as indicated by testing.
6. Flow to clean-up and test.
7. Shut-in well for pressure build-up.
8. Install surface equipment as required.
9. Run potential test.

RECEIVED

DEC 31 '90

O. C. D.
ARTESIA, OFFICE

RECEIVED
DEC 13 11 10 AM '90
CARLOS J. GARCIA
AREA OFFICER

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

SIGNED Sheep & Gorman TITLE Agent DATE 12/11/90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE 12 21 90
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO

NM-71766

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crow Flats "15" Fed Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

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

Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P. O. Box 1240, Graham, Texas 76046

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

At surface

2180' FNL & 660' FEL of Sec. 15

14. PERMIT NO.

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

3576.9' GR

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 PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Daily Drilling & Plug Back.

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 perti-
nent to this work.)*

11/20/90: TD 9700'. Present operation: Trip. Ran DLL-MC-FDL-DSN-GR logs from
9700' to 9400'. Ran formation test log from 9700' - 8700'.

11/21/90: TD 9700'. Present operation: Plugging back. Details as follows:
Plug No. 1 at 9400' with 60 sacks Premium Plus Neat (1.32 cu.ft/sk yield, 14.8#)
Plug No. 2 at 8650' with 30 sacks Premium Plus Neat
Plug No. 3 at 7700' with 30 sacks Premium Plus Neat
Plug No. 4 at 6750' with 30 sacks Premium Plus Neat
Plug No. 5 at 5350' with 30 sacks Premium Plus Neat

11/22/90: Finish plugging back well.
Plug No. 6 at 2050' with 50 sacks Premium Plus Neat
Tag top of cement at 1930'.

Presently waiting on completion.

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

SIGNED Sheryl D. Jones

TITLE Agent

DATE Dec 10, 1990

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RECEIVED
DEC 12 11 26 AM '90
CARLETON DISTRICT
AREA HEADQUARTERS

DEC 31 '90
O. C. D.
ARTESIA OFFICE

(November 1985)
(Formerly 9-33r)

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

Expires August 31, 1985
5. LEASE DESIGNATION AND SERIAL NO.

57

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
Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR
P. O. Box 1240, Graham, Texas 76046

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

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3576.9' GR

NM-71766

6. INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Crow Flats "15" Fed Com

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
16
Sec. 15, T-15-S, R-28-E

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

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

This Sundry Notice is to AMEND the original Application to Drill from a Wolfcamp (6750') or Strawn (8640') completion to a Premier Sand completion. The well was drilled to a total depth of 9700' K.B. and plugged back to 1930' K.B.

RECEIVED

DEC 31 '90

O. C. D.
ARTESIA, OFFICE

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

SIGNED Cliff L. Jones TITLE Agent DATE Dec. 10, 1990

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE 12-24-90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved
Budget Bureau No. 1004-1
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL

NM-71766

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crow Flats "15" Fed Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

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

Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P.O. Box 1240, Graham, Texas 76046

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

At surface

2180' FNL & 660' FEL OF Sec. 15

14. PERMIT NO.

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

3576.9' GR

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

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Weekly Drilling Reports

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 perti-
nent to this work.)*

3/90: Drilling at 5770', made 560' in 21 hours. Formation dolomite, sand
and shale. Deviation survey at 5280' misrun, at 5314' 1/4°.

4/90: Drilling at 6288', made 518' in 22 1/2 hours, formation dolomite and
sand. Deviation survey at 5785' 3/4°.

5/90: Drilling at 6570', made 282' in 15 1/2 hours, formation dolomite.
Deviation survey at 6420' 1 1/2°.

6/90: Present depth 6640', made 70' in 2 1/2 hours. Formation dolomite and
sand. Present operation: Waiting on daylight run DST No. 1 from
6521' to 6640', Base of the Abo. Copy of DST report attached.

7/90: Drilling at 6745', made 105' in 6 hours. Formation dolomite.

8/90: Drilling at 7080', made 335' in 22 1/2 hours. Formation dolomite and
lime. Deviation survey at 6825' 1 1/4°.

9/90: Drilling at 7433', made 353' in 22 1/2 hours. Formation dolomite and
lime. Deviation survey at 7331' 1 1/4°.

10/90: Drilling at 7645', made 212' in 13 1/2 hours, formation dolomite and
lime.

11/90: Drilling at 7859', made 214' in 16 hours, formation dolomite and lime.

12/90: Drilling at 8164', made 305' in 22 1/2 hours, formation lime and
shale. Deviation survey at 7922' 3/4°.

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

SIGNED A. J. Jones

TITLE Agent

DATE 11/19/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)

Form approved
Budget Bureau No. 1004-1
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL

NM-71766

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crow Flats "15" Fed Com

9. WELL NO.

1

10. FIELD AND POOL OR WILDCAT

Wildcat

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

Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

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.)

OIL WELL ☐ GAS WELL ☒ OTHER

RECEIVED

DEC 5 '90

O. C. D.
ARTESIA, OFFICE

2. NAME OF OPERATOR
Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P. O. Box 1240, Graham, Texas 76046

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

At surface

2180' FNL & 660' FEL of Sec. 15

14. PERMIT NO.

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

3576.9' GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FLAUCTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FLAUCTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Weekly Drilling Report

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 perti-
nent to this work.) *

13/90: Drilling at 8353', made 189' in 13 hours. Formation Shale and lime.

14/90: Drilling at 8575', made 222' in 22 hours. Formation shale and lime.

15/90: Drilling at 8972', made 397' in 23 hours. Formation shale and lime.
Deviation survey at 8736' 1°.

16/90: Drilling at 9212', made 240' in 19 hours. Formation shale and lime.

17/90: Present depth 9347', made 135' in 13 hours. Formation shale and lime.
Present operation washing to bottom. Deviation survey at 9347' 1
1/4°.

18/90: Present depth 9600', made 253' in 21 hours. Formation shale and lime.

Present operation tripping.

19/90: ID 9700, made 100' in 9 1/2 hours. Formation shale and lime. Present
operation logging. Deviation survey at 9700' 1°.

RECEIVED
NOV 23 11 26 AM '90
OIL
AREA

I hereby certify that the foregoing is true and correct

SIGNED Sheryl L. Dorcas

TITLE Agent

DATE 11/19/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

BETTIS BOYLE AND STOVALL
CROWFLATS "15" FED COM NO. 1
EDDY COUNTY, NEW MEXICO

DST NO. 1 (Conventional) from 6521' - 6641' (120') (LOWER ABO)

Initial Flow: 30 minutes
Tool opened with weak blow and stayed same
throughout flow period (barely skim bucket).

Initial Shut-in: 60 minutes

Second Initial Flow: 60 minutes
Open tool with no blow and remained dead through-
out flow period.

Final Shut-in: 120 minutes.

RECOVERY

Drill Pipe: Recovered 60' of drilling mud.

Sample Chamber: 30 psig, recovered 2600 cc drilling mud.
Sample R.W. 33,240 ppm Titrate
Pit sample 34,260 ppm chlorides.

PRESSURES (FIELD)

	TOP Chart	Bottom Chart
INITIAL HYDROSTATIC:	3012 psig	2973 psig
INITIAL FLOW:	19 - 19 psig	16 - 16 psig (30 minutes)
INITIAL SHUT-IN:	167 psig	101 psig (60 minutes)
FINAL FLOW:	41 - 41 psig	34 - 34 psig (60 minutes)
FINAL SHUT-IN:	167 psig	101 psig (120 minutes)
FINAL HYDROSTATIC:	3012 psig	2973 psig

Bottom hole Temperature 114°F.

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐ Nov 5 11 42 AM '90

2. NAME OF OPERATOR Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR P. O. Box 1240, Graham, Texas 76040

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

5. PERMIT NO. 2180' FNL & 660' FEL of Sec. 15

6. ELEVATIONS (Show whether DF, RT, GR, etc.) 3576.9 GR

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME Crow Flats "15" Fed Com

9. WELL NO. 1

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH Eddy

13. STATE NM

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) Weekly Drig Rpt. & Int. Casing Rpt.	<input checked="" type="checkbox"/>
(Other)	<input type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

10/24/90: Drilling at 1481', made 626' in 19 1/2 hours, formation anhydrite. Deviation survey at 937' 1 1/4°, at 1411' 1°.

10/25/90: Present depth: 2000', made 519' in 19 hours. Formation anhydrite and salt. Present operation: Laying down drill collars to run intermediate casing.

10/26/90: Present depth 2000'. Present operation: Waiting on cement and 1". Deviation survey at 2000' 1/4°.

CASING REPORT:

Ran 48 joints of 8 5/8" 32#/ft., set at 2000'. Guide shoe, float collar. Cemented with 400 sacks Halliburton Lite with 18% salt, tailed in with 200 sacks Premium Plus with 2% CACL2. Waited 8 hours ran temperature survey, Top of cement at 720'. Ran 1" and tagged cement at 795'. Cemented with 400 sacks Halliburton neat with 2% CACL2, did not circulate cement.

10/27/90: Drilling at 2022', made 22' in 2 hours. Formation lime. hour cement, 3 1/2 hours WDC, 13 hours nipple up and nipple down, Finished 1" cement. Pumped 130 sacks Premium with 2% CACL2. Circulated 42 sacks cement to surface. Plug down at 10:30 AM. BLM on location during 1".

10/28/90: Drilling at 2504', made 481' in 21 hours. Formation dolomite.

10/29/90: Drilling at 3373', made 869' in 22 hours. Formation dolomite. Deviation surveys at 2504' 1°, at 3013' 3/4°.

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

SIGNED Sheryl L. Jones TITLE Agent DATE 11/2/90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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 Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR P. O. Box 1240, Graham, Texas 76046

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

5. ELEVATIONS (Show whether DF, RT, GR, etc.)
3576.9 GR

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Crow Flats "15" Fed Com

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH
Eddy

13. STATE
NM

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)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Weekly Drilling Report

(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.)*

10/30/90: Drilling at 3900', made 527' in 22 hours. Formation dolomite. Deviation survey at 3496' misrun, at 3527' 1/4°.

10/31/90: Drilling at 4412', made 412' in 23 hours. Formation dolomite. Deviation survey at 4002' 3/4°.

11/1/90: Present depth 4826', made 414' in 19 hours. Formation dolomite and sand. Present operation: Trip for new bit. Deviation survey at 4498' 1/2°, at 4826' 3/4°.

11-2-90: Drilling at 5210', made 384' in 18 hours, Formation dolomite and sand.

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

SIGNED

Sheryl A. Gorman

TITLE

Agent

DATE

11/2/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

58

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 ☐ DIVISION
2. NAME OF OPERATOR
Bettis, Boyle & Stovall
3. ADDRESS OF OPERATOR
P. O. Box 1240, Graham, Texas 76046
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
See also space 17 below
At surface

OCT 24 10 35 AM '90

CARLE AREA HE

2180' FNL & 660' FEL of Sec. 15

NOV 1 '90

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3576.9 GR
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 COMPLETION
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) Drilling Report & Surf. Casing
(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.)

10/20/90: Drilling at 142', made 142' in 3 hours. Formation surface rock.
10/21/90: Depth 358', made 212' in 6 hours, formation surface rock. Present operation: Nippling up. Deviation survey at 358' 1°.
CASING REPORT:
Ran 10 joints of 13 3/8" 48#/ft., H-40 casing set at 358'. Cemented with 350 sacks Class "C" with 2% CACL2. Plug down at 5:00 PM
10/20/90. Circulated 25 sacks to pit. BLM not there to witness, Exeter Drilling had notified.
10/22/90: Present depth: 358'. Present operation: Trip for plugged bit. 1 1/2 hours test BOP.
10/23/90: Drilling at 855', made 500' in 19 1/2 hours. Formation anhydrite and salt. Deviation Survey at 450' 3/4°.

APPROVED FOR RECORD

AK

OCT 20 1990

CARLE, NEW METHOD

18. I hereby certify that the foregoing is true and correct
SIGNED Sheryl L. Jones TITLE Agent DATE 10/23/90
(This space for Federal or State office use)

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

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

NM OIL CONG. Other instructions on
reverse side

88210

CONSERVATION DIVISION

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒ DEEPEN ☐ PLUG BACK ☐
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P. O. Box 1240, Graham, Texas 76046

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

At surface
2180' FNL & 660' FEL, Section 15, T16S-R28E

At proposed prod. zone
2180' FNL & 660' FEL, Section 15, T16S-R28E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10.5 miles NW of Loco Hills

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 660'

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

N.A.

16. NO. OF ACRES IN LEASE

480

19. PROPOSED DEPTH

9600'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

3576.9' GR

22. APPROX. DATE WORK WILL START*

10-15-90

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5	350'	325 SX CIRCULATE
11"	8 5/8"	24/32	2000'	800 SX CIRCULATE
7 7/8"	4 1/2"	11.6/13.5	9600'	400 SX (see stips)

Mud Program:

0 - 350' FW Spud mud MW 8.4 - 9.0
350 - 2000 FW (Brine) MW 8.5 - 10.0
2000 - 7600 FW (Brine) MW 8.5 - 10.0
7600 - 9600 Brine, gel, Drispac, MW 8.8 - 10.0
Starch

BOP Program:

See Exhibit "E".

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

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 Mary M. Bettis, Jr. TITLE Agent DATE 8-29-90

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY David Street DATE 9-24-90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

30-015-26490

RECEIVED

SEP 27 '90

RECEIVED

SEP 12 10 31 AM '90

CARLETON AREA

Submit to Appropriate
District Office
State Leases - 4 copies
Fee Leases - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

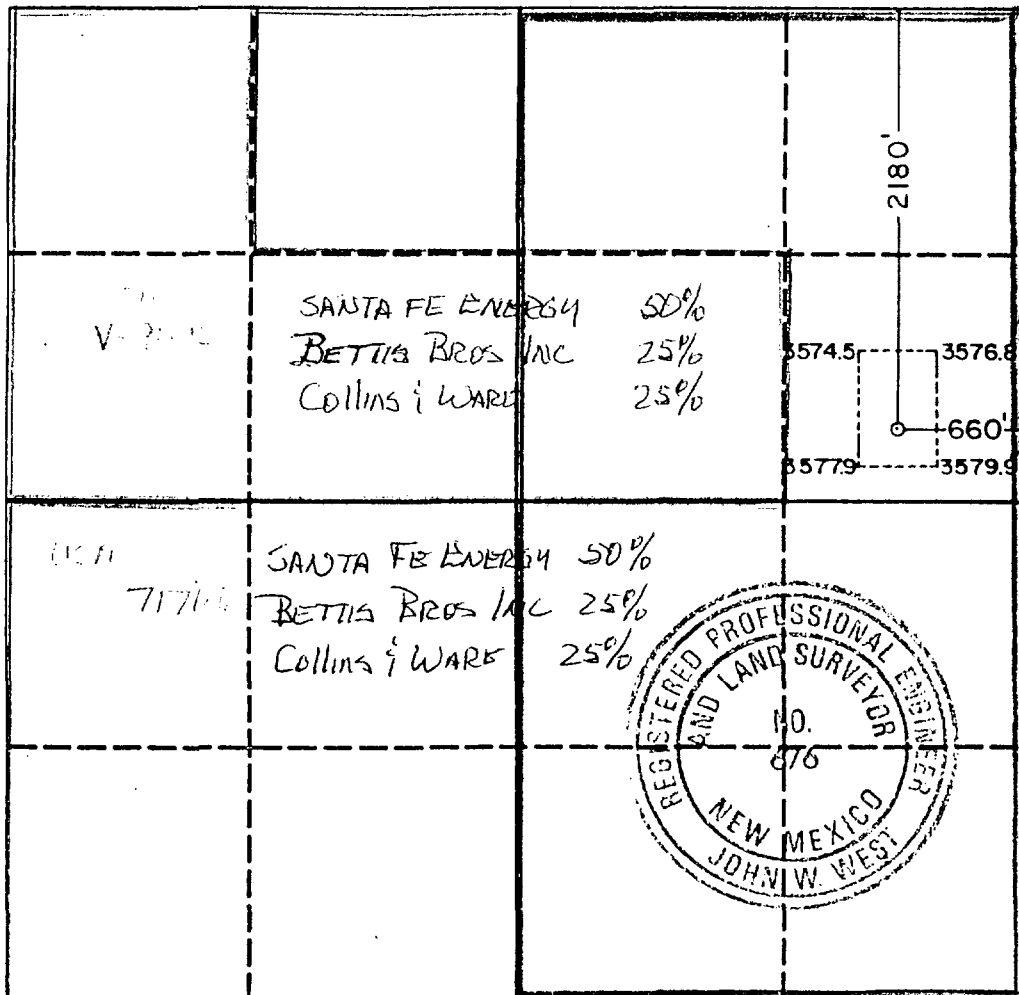
All Distances must be from the outer boundaries of the section

Operator BETTIS BOYLE & STOVALL			Lease Crow Flats Federal 15		Well No. 1
Unit Letter H	Section 15	Township 16 South	Range 28 East	County Eddy	
NMPM					

Actual Footage Location of Well:

2180	feet from the	North	line and	660	feet from the	East	line
Ground level Elev. 3576.9	Producing Formation Morrow		Pool WILDCAT		Dedicated Acreage: 320 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature
HARRY M BETTIS SR
Printed Name
AGENT
Position
BETTIS BOYLE & STOVALL
Company
8/13/90
Date

SURVEYOR CERTIFICATION

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
August 6, 1990

Signature & Seal of
Professional Surveyor

Signature
Certificate No. JOHN W. WEST, 876
RONALD J. EIDSON, 3239

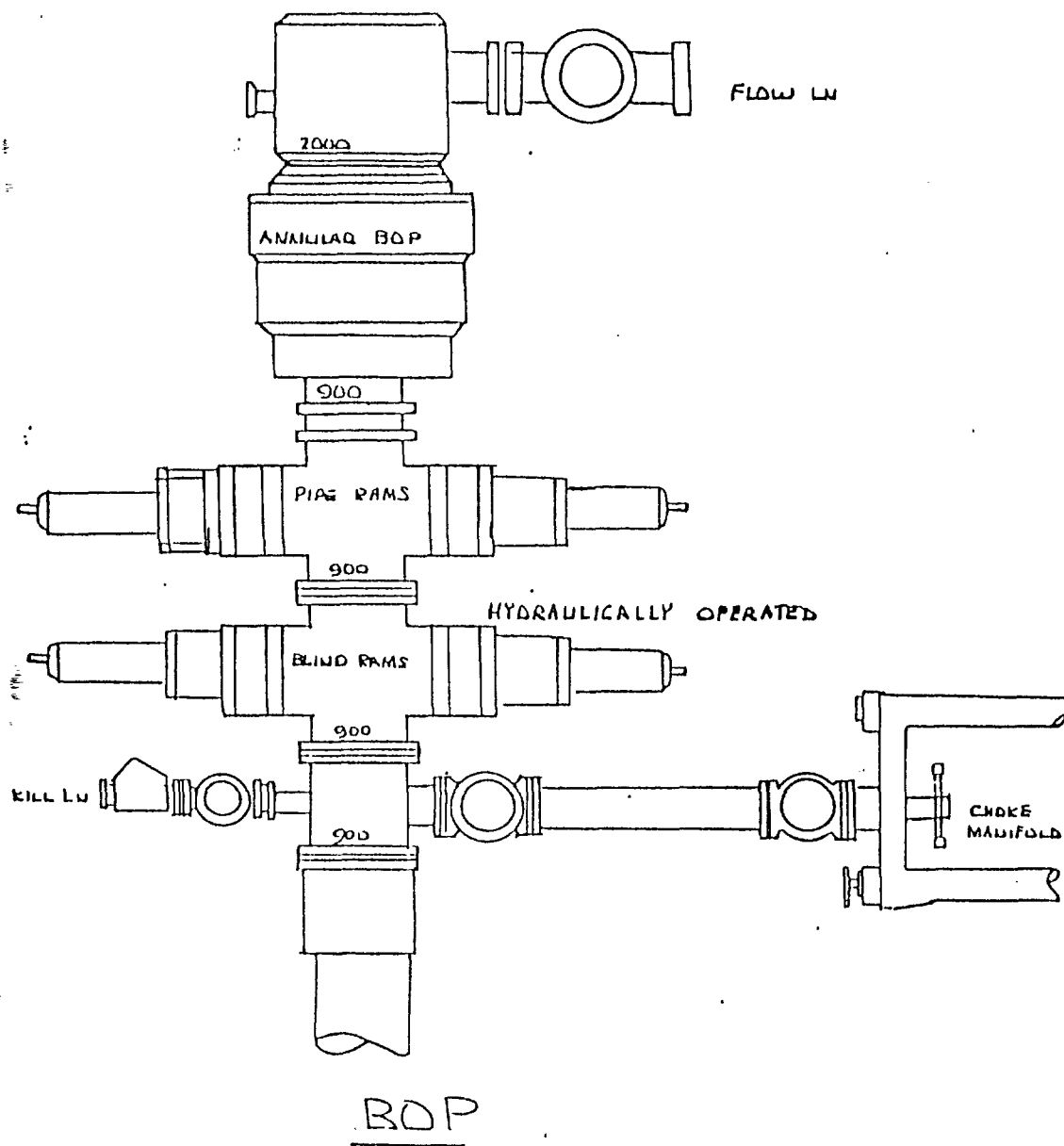


EXHIBIT "E"
 BETTIS BOYLE & STOVALL
 CROW FLATS FED COM "15" NO. 1
 2180' FNL & 660' FEL SEC. 21, T16S, R28E
 BOP Equipment Schematic

IBIT E

Date July 31, 1989

Company Bettis Brothers Location Sec 15, T16S, R28E

Well Name Eddy County Prospect County Eddy State NM

RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	pH		
2000'-7600'	8.4	28-30	NC	10.0-10.5		
<p>Drill out with existing system, circulating the reserves for solids control and mixing Mil-Lime for pH maintenance. Add non-selective flocculant (Jet Jel, Selec Floc) at the flowline to drop out fine drilled solids and maximize use of reserve pit area. Add fresh water or 10.0 lb./gal Brine to control fluid weight to required level for increased wellbore stability. Viscous pills consisting of Milgel, Mil-Lime or Dyna-Sweep, pumped as a sweep, will clean wellbore, as well as seal off fractured and permeable zones and minimize losses. Mud up with Salt Water Gel or sweep hole (100-150 bbl) to ensure successful casing and or logging operations.</p> <p>While drilling with clear fluid, it may be necessary to periodically sweep the hole with Salt Gel or Dyna Sweep pills to assure adequate hole cleaning. Cutting transport depends on cuttings' size and density, fluid weight and viscosity, and annular flow rates. To transport cuttings uphole with clear water, annular fluid velocities of about 100 ft/min are needed. If annular flow rates are too low to clean the hole, then drilled solids will build up in the annulus, reducing penetration rate and increasing the risk of lost circulation.</p> <p>Seepage losses are usually controlled with Ground Paper additions; more severe losses may require Gel/LCM (fiber, Multi-Seal, etc.) pills. For lost circulation, mix a viscous pill consisting of Salt Water Gel (10-20 lb./bbl) and Kwik Seal (10-20 lb./bbl) pump as a sweep at a reduced pump rate to regain returns.</p>						
7600'-9600'	8.8-9.2	32-36	10-12	9.0-9.5		
<p>Return to steel pits, treat make up water with Soda Ash (hardness below 100 mg/l) and Caustic Soda (.3-.5 lb./bbl). Mix Drispac (.5-1.5 lb./bbl) for filtrate control and Potassium</p>						

Date July 31, 1989

Company Bettis Brothers

Location Sec 15, T16S, R28E

Well Name Eddy County Prospect.

County Eddy State NM

RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	pH		
<p>Chloride for added shale inhibition. Add pre-hydrated Milgel slurry to supplement polymers for viscosity.</p> <p>NOTE: KCL muds will exhibit slow increase in chlorides (when potassium base exchange is occurring if the same concentration of K⁺ (potassium) is maintained.</p> <p>With property adjustments as dictated by hole conditions, this fluid should provide excellent properties for drilling, testing, logging, and casing operations.</p>						

WRS COMPLETION REPORTCOMPLETIONS SEC 15 TWP 16S RGE 28E
PI# 30-T-0002 08/09/91 30-015-26490-0000 PAGE 1NMEX EDDY * 2180FNL 660FEL SEC SE NE
STATE COUNTY FOOTAGE SPOT

BETTIS-BOYLE-STOVALL WF WSD

OPERATOR WELL CLASS INIT FIN

1 CROW FLATS "15" FEDERAL COM

WELL NO. LEASE NAME

3601KB 3577GR

UNNAMED

OPER ELEV FIELD/POOL/AREA

API 30-015-26490-0000

LEASE NO PERMIT OR WELL I.D. NO.

10/20/1990 02/14/1991 ROTARY VERT GAS

SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS

9600 MORROW EXETER DRLG 44 RIG SUB 23

PROJ. DEPTH PROJ. FORM CONTRACTOR

DTD 9700 PB 1940 FM/TD CHESTER

DRILLERS T.D. LOG T.D. PLUG BACK TO OLD T.D. FORM T.D.

LOCATION DESCRIPTION

13 MI NW LOCO HILLS, NM

2 1/2 MI SE/9200(ATOK-MRRW) GAS PROD IN DIAMOND MND FLD

WELL IDENTIFICATION/CHANGES

FIELD CHGD FROM WILDCAT

CASING/LINER DATA

CSG 13 3/8 @ 358 W/ 350 SACKS

CSG 8 5/8 @ 2000 W/ 1130 SACKS

TUBING DATA

TBG 2 3/8 AT 1815

INITIAL POTENTIALIPF 288 MCFD 11/64CK 1HRS
PREMIER PERF W/ 36/IT 1856- 1874

SITP 840

@. 1855FT

BHT 80F

8/64CK 238MCFD TP 766 BHFP 798

9/64CK 280MCFD TP 710 BHFP 738

10/64CK 256MCFD TP 524 BHFP 541

11/64CK 288MCFD TP 501 BHFP 516

BH 877 FPCAOF 359MCFD

GOR DRY

GAS GTY .803

CONTINUED IC# 300157026390

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ProhibitedPetroleum Information
CorporationPI-WRS-GET
Form No 187

COMPLETIONS SEC 15 TWP 16S RGE 28E
PI# 30-T-0002 08/09/91 30-015-26490-0000 PAGE 2

BETTIS-BOYLE-STOVALL WF WSD
1 CROW FLATS "15" FEDERAL COM

INITIAL POTENTIAL

P/L CON NONE
FIELD

/RESERVOIR
/PREMIER SD

1ST THRU 4TH PT TEST IN 60 MINS

TYPE	FORMATION	LTH	TOP	DEPTH/SUB	BSE	DEPTH/SUB
LOG	YATES		416	3185		
LOG	QUEEN		1123	2478		
LOG	SN ANDRS		1908	1693		
LOG	GLORIETA		3360	241		
LOG	TUBB		4618	-1017		
LOG	ABO		5362	-1761		
LOG	WOLFCAMP		6768	-3167		
LOG	CISCO		7692	-4091		
LOG	CANYON		8064	-4463		
LOG	STRAWN		8651	-5050		
LOG	ATOKA		9066	-5465		
LOG	MORROW		9314	-5713		
LOG	CHESTER		9418	-5817		

SUBSEA MEASUREMENTS FROM KB

FORMATION TEST DATA

DST 1 6521- 6641 ABO L
REC 60.0 FT MUD 2600.0 CC MUD
INIT OP 30M IFP 19 FFP 19
FINAL OP 1H IFP 41 FFP 41 BHT 114F
ISIP 167 1H FSIP 167 2H IHP 3012 FHP 3012
WS 34260 PPM CL

PRODUCTION TEST DATA

PTF 500 MCFD 40/64CK 24HRS
PREMIER PERF 1856- 1874
PERF 1856- 1874
ACID 1856- 1874 2700GALS
TP 35
FM - PREMIER SD

PTF 359 MCFD 1856- 1874 24HRS
PREMIER PERF

CONTINUED

COMPLETIONS SEC 15 TWP 16S RGE 28E
PI# 30-T-0002 08/09/91 30-015-26490-0000 PAGE 3

BETTIS-BOYLE-STOVALL WF WSD
1 CROW FLATS "15" FEDERAL COM

PRODUCTION TEST DATA

FM - PREMIER SD

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS	DLL	DSN	DENL
LOGS	SDBL		

DRILLING PROGRESS DETAILS

BETTIS-BOYLE-STOVALL
BOX 1240
GRAHAM, TX 76046
817-549-0780
LOC/1990/
09/25 RURT
10/17 DRLG 855
10/23 DRLG 3900
10/30 DRLG 6640
11/06 DRLG 8164
11/13 9700 TD, RNG LOGS
11/20 9700 TD, WOCT
11/30 PB OH TO 1940
02/01 9700 TD, PB 1940, TSTG
02/08 9700 TD, PB 1940, SI EVAL
03/08 9700 TD, PB 1940, WOPT
04/05 9700 TD, PB 1940, WO STATE FORMS
08/02 TD REACHED 11/18/90 RIG REL 11/22/90
9700 TD, PB 1940
COMP 2/14/91, IPCAOF 359 MCFGPD, GOR DRY,
GTY (GAS) .803, SIWHP 840,
SIBHP 877
PROD ZONE - PREMIER SD 1856-1874
NO CORES, ONE DST RPTD
08/02 PREMIER SD DISCOVERY - SHALLOWER POOL

JAMES BRUCE
Attorney at Law
Post Office Box 1056
Santa Fe, New Mexico 87504
Telephone: (505) 982-2043
Fax: (505) 982-2151

FAX COVER SHEET

DELIVER TO: Michael E. Stogner

COMPANY: Oil Conservation Division

CITY: Santa Fe, New Mexico

FAX NUMBER: (505) 476-3471

NUMBER OF PAGES: 3 (Including Cover Sheet)

DATE SENT: 6/13/02

MEMO: Mike: Regarding the Devon NSL, enclosed is the completion report I have in my file showing a Queen completion.

CONFIDENTIALITY NOTICE

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UNITED STATES

SUBMIT IN DUPLICATE

Budget Bureau No. 1004-0137
Expires August 31, 1985

5

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIVISION

5. LEASE DESIGNATION AND SERIAL NO.

NM-71766

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crom Flats "15" Fed Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:

OIL

WELL

GAS

WELL

OTHER

OTHER

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b. TYPE OF COMPLETION:

NEW

WELL

WORK

OVER

DEEP

WELL

PLUG

BACK

PISTON

PUMP

OTHER

WELL

2. NAME OF OPERATOR

Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P. O. Box 1240, Graham, Texas 76046

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

At surface

2180' FNL & 660' FEL of Sec. 15

At top prod. interval reported below

2180' FNL & 660' FEL

At total depth

2180' FNL & 660' FEL

14. PERMIT NO.

DATE ISSUED

15. DATE DRILLED

10/20/90

16. DATE T.D. REACHED

11/18/90

17. DATE COME (Ready to prod.)

1/25/91

18. ELEVATION (OF, RCR, ST, OR, ETC.)

3577' GR 3601' KB

19. ELEV. CASINGHEAD

NA

20. TOTAL DEPTH, MD & TVD

9.700

21. FLOW, PACK T.D., MD & TVD

1,940' (CIBP)

22. IF MULTIPLE COMPL.

NA

23. INTERVALS

NA

24. INTERVALS

NA

25. INTERVALS

NA

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

1856' - 1874' Premier Sand

27. WAS DIRECTIONAL SURVEY MADE

No

28. TYPE ELECTRIC AND OTHER LOGS RUN

DLL-MG, SFT SD DSNL

29. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB/FT	DEPTH SET (MD)	HOIST RISE	CEMENTING RECORD	AMOUNT FULLED
13-3/8	48	358	17 1/2	350 sacks	None
8-5/8	32	2000	11	1,130 sacks	None

26. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	PACKER CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	1815.32	1809.57

27. PERFORATION RECORD (Interval, size and number)

1856' - 1874' (36 holes) (0.5" dia)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1856 - 1874	250 gallons 10% Acetic Acid
	2700 gallons MOD 101 Acid

29. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
NA		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKED RISE	PROD. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2/14/91	24	1/2"	→	-0-	510	-0-	---
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
65	Pkr.	→	-0-	510	-0-	---	

30. DISPOSITION OF GAS (Hold, used for fuel, vented, etc.)

To be sold. Presently waiting on pipeline connection.

TEST WITNESSED BY

Bennett-Cathey

31. LIST OF ATTACHMENTS

DST report, 4-Point test, deviation survey, logs.

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

SIGNED

TITLE

Agent (Cord E. Eng.)

DATE

2/27/91

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Lower (Abo)	6521'	6641'	DST No. 1 (Conventional Test) Recovered 60' of drilling mud. Sample Chamber recovered 2600 cc drilling mud. 30 psig. See attached for further information.	Yates Queen San Andres Glorieta Tubb Abo Wolfcamp Cisco Canyon Strawn Atoka Morrow Chester	415' 1123' 1908' 3360' 4618' 5362' 6753' 7592' 8074' 8651' 9066' 9214' 9413'	415' 1123' 1908' 3360' 4618' 5362' 6753' 7592' 8074' 8651' 9066' 9214' 9413'	415' 1123' 1908' 3360' 4618' 5362' 6753' 7592' 8074' 8651' 9066' 9214' 9413'

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

06/12/02 12:05:33
OGOMES -TQIX

API Well No : 30 15 26490 Eff Date : 12-22-2000 WC Status : A
Pool Idn : 96072 WILDCAT,PENN (GAS)
OGRID Idn : 20305 DEVON SFS OPERATING INC
Prop Idn : 29516 CROW FLATS 15 FEDERAL COM

Well No : 001
GL Elevation: 3577

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	:	H	15	16S	28E	FTG 2180 F N FTG 660 F E	P
Lot Identifier:							
Dedicated Acre:	160.00						
Lease Type	:	F					
Type of consolidation	(Comm, Unit, Forced Pooling - C/U/F/O) :						

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GOTO	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

Attachment

"D"

CMD :
OG6ACRE

ONGARD
C102-DEDICATE ACREAGE

06/12/02 12:05:49
OGOMES -TQIX
Page No : 1

API well No : 30 15 26490 Eff Date : 12-22-2000
Pool Idn : 96072 WILDCAT;PENN (GAS)
Prop Idn : 29516 CROW FLATS 15 FEDERAL COM
Spacing Unit : 55700 OCD Order :
Sect/Twp/Rng : 15 16S 28E Acreage : 160.00 Revised C102? (Y/N) :
Dedicated Land:

S	Base U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
	A	15	16S	28E	40.00	N	FD		
	B	15	16S	28E	40.00	N	FD		
	G	15	16S	28E	40.00	N	ST		
	H	15	16S	28E	40.00	N	FD		

E0005: Enter data to modify or PF keys to scroll
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

CMD :
OG6IPRD
ONGARD
INQUIRE PRODUCTION BY POOL/WELL

06/12/02 12:06:08
OGOMES -TQIX
Page No: 1

OGRID Identifier : 20305 DEVON SFS OPERATING INC
Pool Identifier : 96072 WILDCAT;PENN (GAS)
API well No : 30 15 26490 Report Period - From : 01 2000 To : 04 2002

API well No		Property Name	Prodn. Days MM/YY Prod	Production Volumes		Well
				Gas	Oil	Water Stat
30	15	26490 CROW FLATS 15 FEDERA	01 02 31	16231		F
30	15	26490 CROW FLATS 15 FEDERA	02 02 28	966		F
30	15	26490 CROW FLATS 15 FEDERA	03 02 31	1033		F

Reporting Period Total (Gas, Oil) : 18230

M0025: Enter PF keys to scroll
PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

DATE 6/6/02	SUBMITTER 6/26/02	ENGINEER MS	LOGGED IN KW	TYPE NSL	APP NO. 216135264
-------------	-------------------	-------------	--------------	----------	-------------------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which

[A] Location - Spacing Unit - Simultaneous
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PL

[C] Injection - Disposal - Pressure Increase
☐ WFX ☐ PMX ☐ S

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check

[A] ☐ Working, Royalty or Over

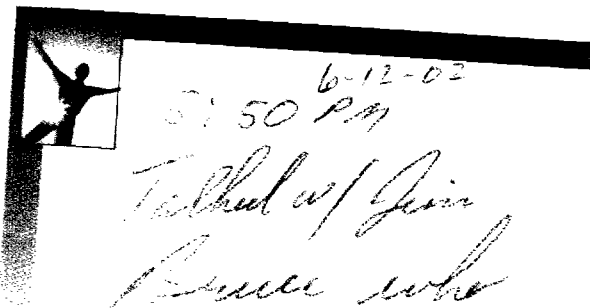
[B] ☒ Offset Operators, Leasehold

[C] ☐ Application is One Which

[D] ☐ Notification and/or Concurrent Approval by BLM or SLU
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached



CELEBREX
 (CELECOXIB CAPSULES) 100 mg
 200 mg
 12/99 - YCE18589P

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

James Bruce
 Print or Type Name

Signature

Attorney for Applicant
 Title

Date

JAMES BRUCE
 P.O. BOX 1056
 SANTA FE, NM 87504

jamesbruc@aol.com
 e-mail Address

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

324 MCKENZIE STREET
SANTA FE, NEW MEXICO 87501

(505) 982-2043
(505) 982-2151 (FAX)

June 6, 2002

Michael E. Stogner
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Stogner:

Devon SFS Operating, Inc. ("Devon") applies for administrative approval of an unorthodox gas well location for the following well:

<u>Well:</u>	Crow Flats 15 Fed. Com. Well No. 1 (30-015-26490)
<u>Location:</u>	2180 feet FNL & 660 feet FEL
<u>Well Unit:</u>	NE $\frac{1}{4}$ of Section 15, Township 16 South, Range 28 East, N.M.P.M., Eddy County, New Mexico

The well was drilled to test the Morrow formation, but was unsuccessful and was completed uphole in the Queen formation as a gas well. Well spacing is 160 acres, with wells to be no closer than 660 feet to a quarter section line.

A land plat is attached as Exhibit A. The lease covering the SE $\frac{1}{4}$ of Section 15 also covers 120 acres within the well unit. The remaining 40 acres (the SW $\frac{1}{4}$ NE $\frac{1}{4}$) is owned by Devon. A listing of offset working interest owners is attached as Exhibit B. A copy of the notice letter sent to the offsets is attached as Exhibit C.

Please call me if you need any further information on this matter.

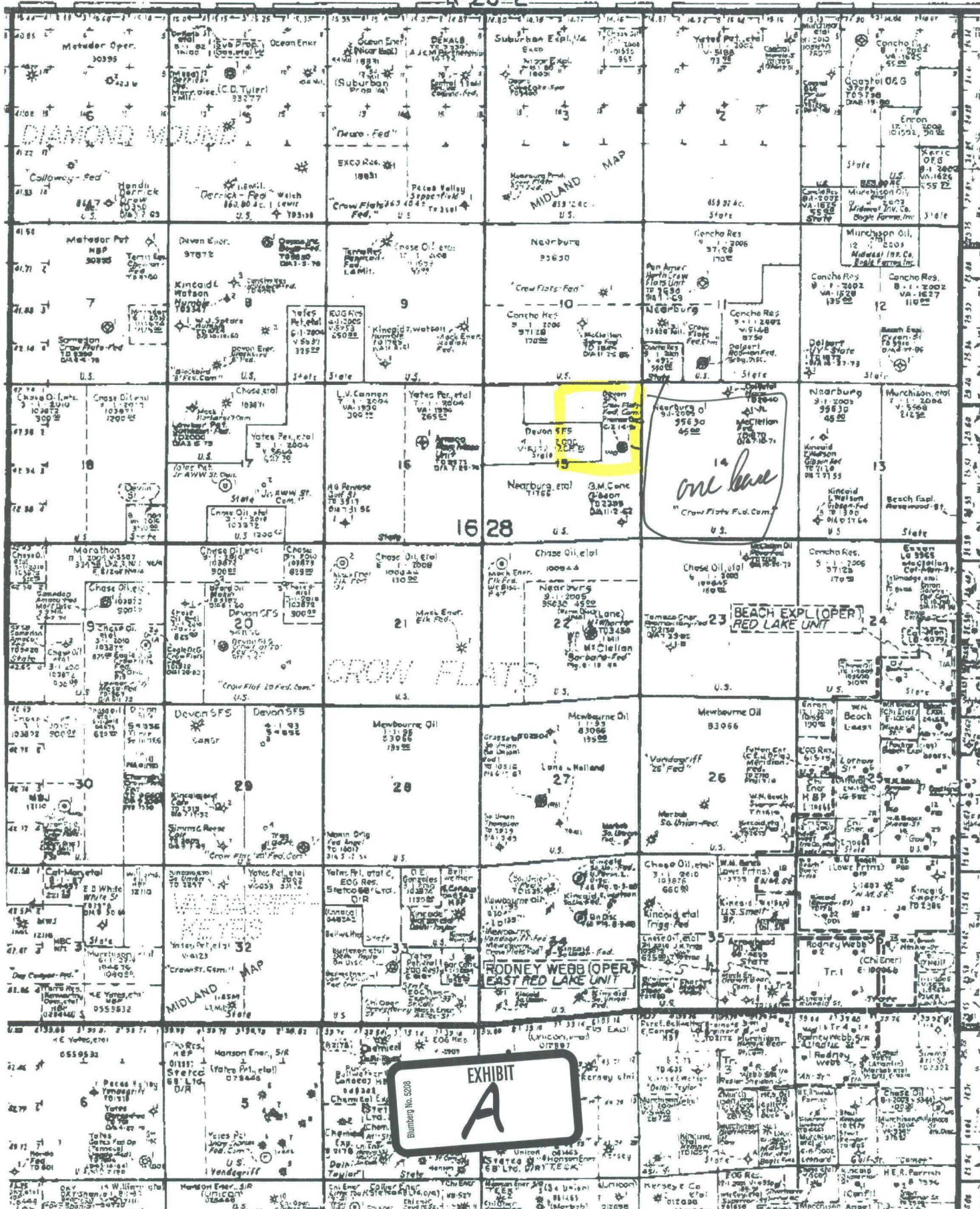
Very truly yours,



James Bruce

Attorney for Devon SFS Operating, Inc.

R-28-E



Interest Owner	Address1	Address2	Cert. No. 7001 0360 000 2116	WI	Fax No.	
Nearburg Exploration Company, L.L.C.	3300 N. A", Bldg. 2, #120	Midland, TX 79705				
Turnco, Inc.	P.O. Box 1240	Graham, TX 76046				
H.M. Bettis	500 W. Texas, Suite 830	Midland, TX 79701				
Apache Corporation	P.O. Box 840133	Dallas, TX 75284				
L.E. Opperman	500 W. Texas, Suite 830	Midland, TX 79701				
RBM-CO	2201 North Palm Street	Little Rock, Arkansas 72207				

Well Name: Crow Flat 15 Fed. Com. #1

Location: Section 15, T-16-S, R-28-E

Proposal:

Devon Energy's WI



JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

324 MCKENZIE STREET
SANTA FE, NEW MEXICO 87501

(505) 982-2043
(505) 982-2151 (FAX)

June 6, 2002

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

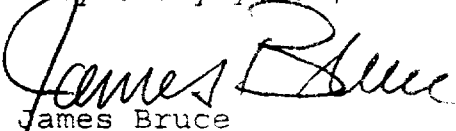
To: Persons on Exhibit A

Ladies and Gentlemen:

Enclosed is a copy of an application, filed with the New Mexico Oil Conservation Division by Devon SFS Operating, Inc., requesting administrative approval of an unorthodox gas well location in the Queen formation in the NE $\frac{1}{4}$ of Section 15, Township 16 South, Range 28 East, NMPM, Eddy County, New Mexico. If you object to the well's location, you must notify the Division in writing no later than Wednesday, June 26, 2002 (1220 South St. Francis Drive, Santa Fe, New Mexico 87505; attention: Michael E. Stogner). Failure to object will preclude you from contesting this matter at a later date.

If you do not object to the location, please so indicate by signing below, and returning the letter to me. Thank you.

Very truly yours,


James Bruce

Attorney Devon SFS Operating, Inc.

I/we do not object to the unorthodox location.

Name: _____

By: _____

Date: _____



EXHIBIT A

Nearburg Exploration Company, L.L.C.
Building 2, Suite 120
3300 North "A" Street
Midland, Texas 79705

Turnco, Inc.
P.O. Box 1240
Graham, Texas 76046

H.M. Bettis
Suite 830
500 West Texas
Midland, Texas 79701

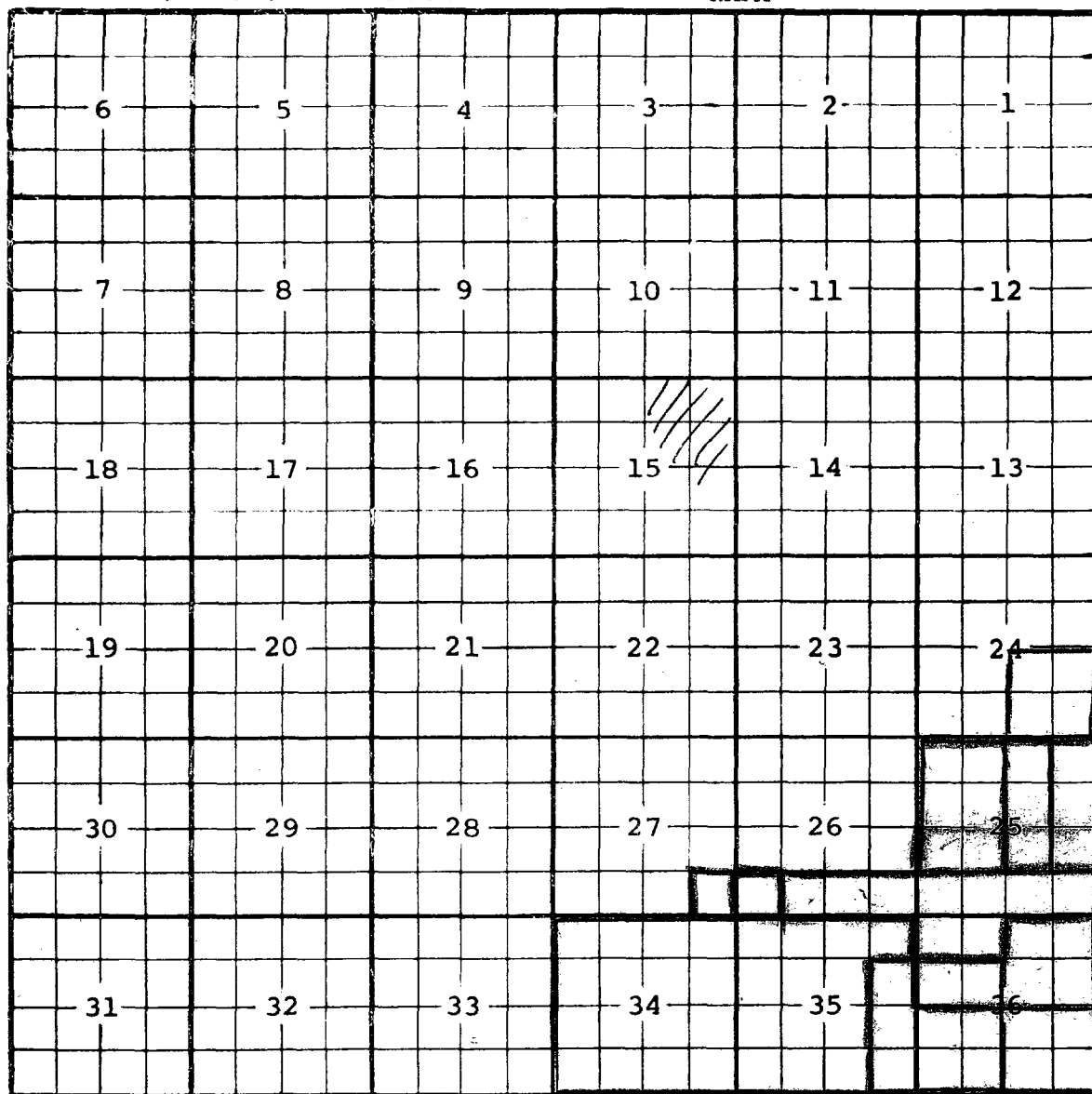
Apache Corporation
P.O. Box 840133
Dallas, Texas 75284

L.E. Opperman
Suite 830
500 West Texas
Midland, Texas 79701

RBM-CO
2201 North Palm Street
Little Rock, Arkansas 72207

COUNTY EddyPOOL East Red Lake Queen - GrayburgTOWNSHIP 16 SouthRANGE 28 East

NMPM



Description: $\frac{SE}{4} \frac{NE}{4} \frac{E}{2} \frac{SE}{4}$ Sec. 35; $\frac{SW}{4}$ Sec. 36 (R-1611, 3-1-60)

Ext: $\frac{SE}{4}$ Sec. 36 (R-2410, 2-1-63) - All Sec. 34; $\frac{W}{2} \frac{W}{2} \frac{E}{2} \frac{NE}{4} \frac{NE}{4}$ Sec. 35 (R-2449, 4-1-63)

Vertical limits extended to include Grayburg formation (R-2552, 9-1-63)

Ext: $\frac{SE}{4} \frac{SE}{4}$ Sec. 27 (R-2911, 6-1-65) - $\frac{SW}{4} \frac{SW}{4}$ Sec. 26 (R-2938, 8-1-65)

Ext: $\frac{1}{2}$ NW/4 Sec. 36 (R-6169, 11-1-77) Ext: NE/4 Sec. 36 (R-6211, 12-31-79)

Ext: $\frac{1}{2} \frac{SE}{4}$ Sec. 25 & $\frac{1}{2} \frac{SE}{4} + \frac{SE}{4} \frac{SW}{4}$ Sec. 26, $\frac{1}{2}$ NW/4 Sec. 36 (R-6368, 7-1-80)

Ext: NW/4 + $\frac{1}{2}$ SW/4 Sec. 25 (R-6476, 10-1-80)

Ext: $\frac{W}{2} \frac{NE}{4}$ & NW/4 SE/4 sec 25 (R-6724, 7-16-81) Ext: $\frac{E}{2} \frac{NE}{4}$ & NE/4 SE/4

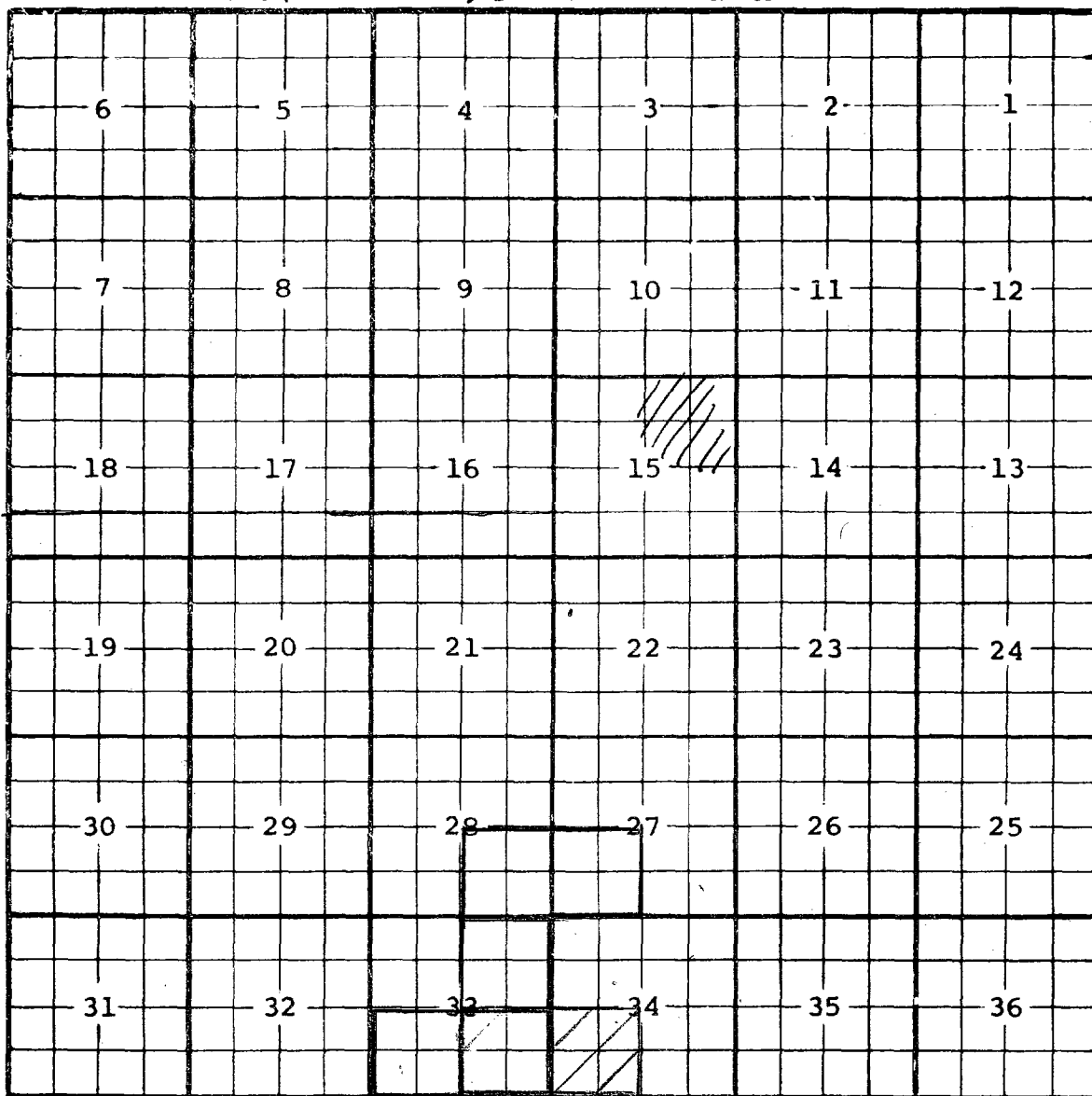
(R-6994, 5-28-82) Ext: SE/4 Sec. 24 (R-8431, 4-15-87)

COUNTY EddyPOOL Vandagriff-Keves Gas

(Queen)

TOWNSHIP 16 SouthRANGE 28 East

NMPM

Ext: $\frac{SE}{4}$ Sec. 33; $\frac{SW}{4}$ Sec. 34 (R-1221, 8-1-58)Deletion: $\frac{SW}{4}$ Sec. 34 (R-1611, 3-1-60)Ext: $\frac{NE}{4}$ Sec. 33 (R-2187, 3-1-62) - $\frac{SW}{4}$ Sec. 33 (R-2552, 9-1-63)- $\frac{SW}{4}$ Sec. 27; $\frac{SE}{4}$ Sec. 28 (R-2928, 8-1-65)

CMD :
OGSSECT

ONGARD
INQUIRE LAND BY SECTION

06/12/02 12:04:39
OGOMES -TQIX
PAGE NO: 1

Sec : 15 Twp : 16S Rng : 28E Section Type : NORMAL

D	C	B	A
40.00 CS V06172 0001 DEVON SFS OPERATI 04/01/06	40.00 Federal owned	40.00 Federal owned C	40.00 Federal owned C
E	F	G	H
40.00 CS V06172 0001 DEVON SFS OPERATI 04/01/06	40.00 CS V06172 0001 DEVON SFS OPERATI 04/01/06	40.00 CS V06172 0001 DEVON SFS OPERATI C 04/01/06	40.00 Federal owned C A

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

CMD :
OG5SECT
ONGARD
INQUIRE LAND BY SECTION

06/12/02 12:04:56
OGOMES -TQIX
PAGE NO: 2

Sec : 15 Twp : 16S Rng : 28E Section Type : NORMAL

L	K	J	I
40.00	40.00	40.00	40.00
Federal owned	Federal owned	Federal owned	Federal owned
M	N	O	P
40.00	40.00	40.00	40.00
Federal owned	Federal owned	Federal owned	Federal owned

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

CMD : ONGARD 06/12/02 12:05:33
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TQIX

API Well No : 30 15 26490 Eff Date : 12-22-2000 WC Status : A
Pool Idn : 96072 WILDCAT;PENN (GAS)
OGRID Idn : 20305 DEVON SFS OPERATING INC
Prop Idn : 29516 CROW FLATS 15 FEDERAL COM

Well No : 001
GL Elevation: 3577

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	:	H	15	16S	28E	FTG 2180 F N FTG 660 F E	P
Lot Identifier:							
Dedicated Acre:	160.00						
Lease Type	:	F					
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :							

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GOTO	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD : ONGARD 06/12/02 12:05:49
OG6ACRE C102-DEDICATE ACREAGE OGOMES -TQIX

Page No : 1

API Well No : 30 15 26490 Eff Date : 12-22-2000
Pool Idn : 96072 WILDCAT;PENN (GAS)
Prop Idn : 29516 CROW FLATS 15 FEDERAL COM Well No : 001
Spacing Unit : 55700 OCD Order : Simultaneous Dedication:
Sect/Twp/Rng : 15 16S 28E Acreage : 160.00 Revised C102? (Y/N) :
Dedicated Land:

S	Base U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
A	15	15	16S	28E	40.00	N	FD		
B	15	15	16S	28E	40.00	N	FD		
G	15	15	16S	28E	40.00	N	ST		
H	15	15	16S	28E	40.00	N	FD		

E0005: Enter data to modify or PF keys to scroll
PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

ONGARD

06/12/02 12:06:08

CMD :
OG6IPRD

INQUIRE PRODUCTION BY POOL/WELL

OGOMES -TQIX
Page No: 1

OGRID Identifier : 20305 DEVON SFS OPERATING INC

Pool Identifier : 96072 WILDCAT;PENN (GAS)

API Well No : 30 15 26490 Report Period - From : 01 2000 To : 04 2002

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water Stat	Well
30 15 26490	CROW FLATS 15 FEDERA	01 02 31	16231	F
30 15 26490	CROW FLATS 15 FEDERA	02 02 28	966	F
30 15 26490	CROW FLATS 15 FEDERA	03 02 31	1033	F

Reporting Period Total (Gas, Oil) : 18230

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONSERVATION DIV
811 S. 1st ST.
ARTESIA, NM 88203

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Santa Fe Energy Resources, Inc.

3. Address and Telephone No.
550 W. Texas, Suite 1330, Midland, TX 79701 915/687-3551

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2180' FNL & 660' FEL, Sec. 15, T-16S, R-28E

5. Lease Designation and Serial No.
NM-71766

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Crow Flats "15"
Fed Com #1

9. API Well No.
30-015-26490

10. Field and Pool, or exploratory Area
Wildcat

11. County or Parish, State
Eddy NM

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Request SI status	<input type="checkbox"/> Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Santa Fe Energy Resources, Inc. respectfully requests that this well be given a one year extension of its current shut-in status. The well is completed and capable of production, however it is currently uneconomic to connect to pipeline.

Santa Fe continues to evaluate the viability of development in this area. An additional well is planned when gas prices increase.

RECEIVED
JAN 23 1996

OIL CON. DIV.
DIST. 2

Approved For 12 Months Period
Ending 12/4/96
This Approval of Temporary
Assignment Expires 12/2001



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

Signed Sherry McCullough Title Sr. Production Clerk Date 12/4/95

(This space for Federal or State office use)

Approved by Orig. Signed by Adam Salas Title Petroleum Engineer Date 1/19/96

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

24

OIL CONSERVED
RECEIVED
JUN 18 1994

NM OIL CONS COMMISSION
Drawer DD
Artesia, NM 88210

Form 3160-5
(June, 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Santa Fe Energy Operating Partners, L.P. ✓

3. Address and Telephone No.

550 W. Texas, Suite 1330, Midland, Texas 79701

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2180' FNL and 660' FEL, Sec. 15, T-16S, R-28E

5. Lease Designation and Serial No.

NM-71766

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Crow Flats 15 Fed Com #1

9. API Well No.

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Eddy Co., NM

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

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Request SI status

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Santa Fe Energy Operating Partners, L.P. respectfully requests that this well be given a one year extension of its current shut-in status. The well is completed and capable of production, but it is currently uneconomic to connect to pipeline. Santa Fe plans to drill an offset well in Mid-1994 to evaluate the viability of further field development and pipeline connection.

The well was tested for mechanical integrity on January 7, 1993.

APPROVED FOR 12 MONTH PERIOD
ENDING 5/17/95

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

Signed

Title Sr. Production Clerk

Date May 17, 1994

(This space for Federal or State office use)

(ORIG. SGD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 6/7/94

Approved by
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
B.L.M. Designation and Serial No.
NM-71766

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Santa Fe Energy Operating Partners, L.P. ✓

3. Address and Telephone No.

550 W. Texas, Suite 1330, Midland, TX 79701 (915) 687-3551

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2180' FNL and 660' FEL, Sec. 15, T-16S, R-28E

6. If Indian, Allottee or Tribe Name

7. If Unit or CA. Agreement Designation

8. Well Name and No.

Crow Flats 15 Fed Com #1

9. API Well No.

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Eddy Co., NM

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

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Request SI status

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Santa Fe Energy Operating Partners, L.P. respectfully requests that this well be given a shut-in status for one year. The well is completed and capable of production, however, the high cost of installing a gas transmission line to the well location is uneconomic at this time.

This well was tested for mechanical integrity on January 7, 1993, and the test results submitted for approval on January 12, 1993.

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

Signed

Title Sr. Production Clerk

Date April 14, 1993

(This space for Federal or State office use)

Approved by

(ORIG. SGD.) JOE G. LARA

Title

PETROLEUM ENGINEER

Date

APR 28 1993

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTSUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crowflats 15 Federal

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

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

Sec 15 T16S R28E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

SANTA FE ENERGY OPERATING PARTNERS, L.P.

3. ADDRESS OF OPERATOR

P. O. Box 2327 Carlsbad, New Mexico 88221-2327 505-887-0821

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

2180' FNL & 660' FEL

14. PERMIT NO.

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

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐casing integrity test ☐

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 perti-
nent to this work.)

1. Tested for mechanical integrity test on annulus
2. Pressure annulus to 500# with Chart recorder attached.
3. Test for 30 minutes per BLM guidelines
4. See attached chart.



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

SIGNED R.L. "Pete" StullTITLE Area SuperintendentDATE January 12, 1993

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

OIL CONS. COMMISSION
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

57

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ **RECEIVED**

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

2. NAME OF OPERATOR **Bettis, Boyle & Stovall** *Santa Fe Energy*

3. ADDRESS OF OPERATOR **P. O. Box 1240, Graham, Texas 76046**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **2180' FNL & 660' FEL of Sec. 15**

At top prod. interval reported below **2180' FNL & 660' FEL**

At total depth **2180' FNL & 660' FEL**

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED **10/20/90** 16. DATE T.D. REACHED **11/18/90** 17. DATE COMPL. (Ready to prod.) **1/25/91** 18. ELEVATIONS (DF, RKB, RT, GE, ETC.)* **3577' GR 3601' KB**

20. TOTAL DEPTH, MD & TVD **9.700** 21. PLUG, BACK T.D., MD & TVD **1,940' (CIBP)** 22. IF MULTIPLE COMPL., HOW MANY* **NA** 23. INTERVALS DRILLED BY **→**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
1856' - 1874' Premier Sand

26. TYPE ELECTRIC AND OTHER LOGS RUN **DLL-MG, SFT SD-DSNL**

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	358	17 1/2	350 sacks	None
8-5/8	32	2000	11	1,130 sacks	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8	1815.32	1809.57

31. PERFORATION RECORD (Interval, size and number)

1856' - 1874' (36 holes) (0.5" dia)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1856 - 1874	250 gallons 10% Acetic Acid
	2700 gallons MOD 101 Acid

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
NA		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2/14/91	24	1/2"	→	-0-	510	-0-	---
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
65	Pkr.	→	-0-	510	-0-	---	

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

To be sold. Presently waiting on pipeline connection

TEST WITNESSED BY

Bennett-Cathey

35. LIST OF ATTACHMENTS

DST report, 4-Point test, deviation survey, logs.

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

SIGNED *James F. Edwards* TITLE **Agent (Candi Engle)** DATE **2/27/91**

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

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):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Lower (Abo)	6521'	6641'	DST No. 1 (Conventional Test) Recovered 60' of drilling mud. Sample Chamber recovered 2600 cc drilling mud. 30 psig. See attached for further information.	Yates Queen San Andres Glorieta Tubb Abo Wolfcamp Cisco Canyon Strawn Atoka Morrow Chester	416' 1123' 1908' 3360' 4618' 5362' 6768' 7692' 8074' 8651' 9066' 9314' 9418'	416' 1123' 1908' 3360' 4618' 5362' 6768' 7692' 8074' 8651' 9066' 9314' 9418'

WELL: Crow Flats #1

LOCATION Sec. 15-16S-28E Eddy County, NM
(Give Unit, Section, Township, And Range)

OPERATOR Bettis, Boyle & Stovall c/o O'Briant Engineering
P. O. Box 10487 Midland, TX 79702

DRILLING CONTRACTOR Exeter Drilling Company

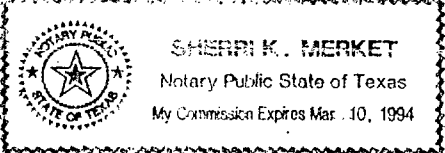
The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
1° 358'	3/4° 7,922'	
3/4° 450'	1° 8,736'	
± 1/4° 937'	1 1/4° 9,347'	
1° 1,411'	1° 9,700'	
1/4° 2,000'		
1° 2,501'		
3/4° 2,995'		
1/4° 3,527'		
3/4° 4,002'		
1/2° 4,498'		
3/4° 4,826'		
1/4° 5,314'		
3/4° 5,785'		
1 1/2° 6,420'		
1 1/4° 6,825'		
1 1/4° 7,331'		

Drilling Contractor Exeter Drilling Company

By Bruce D. Houtchens
Bruce D. Houtchens, Vice President-Southern Division

Subscribed and sworn to before me this 5th day of December, 1993



Sherri K. Merket
Notary Public Sherri K. Merket

My Commission Expires: 3-10-94 Midland County Texas

RECEIVED
DEC 9 1993
AAS

BETTIS BOYLE AND STOVALL
CROWFLATS "15" FED COM NO. 1
EDDY COUNTY, NEW MEXICO

DST NO. 1 (Conventional) from 6521' - 6641' (120') (LOWER ABO)

Initial Flow: 30 minutes
Tool opened with weak blow and stayed same
throughout flow period (barely skim bucket).

Initial Shut-in: 60 minutes

Second Initial Flow: 60 minutes
Open tool with no blow and remained dead through-
out flow period.

Final Shut-in: 120 minutes.

RECOVERY

Drill Pipe: Recovered 60' of drilling mud.

Sample Chamber: 30 psig, recovered 2600 cc drilling mud.
Sample R.W. 33,240 ppm Titrate
Pit sample 34,260 ppm chlorides.

PRESSURES (FIELD)

	TOP Chart	Bottom Chart
INITIAL HYDROSTATIC:	3012 psig	2973 psig
INITIAL FLOW:	19 - 19 psig	16 - 16 psig (30 minutes)
INITIAL SHUT-IN:	167 psig	101 psig (60 minutes)
FINAL FLOW:	41 - 41 psig	34 - 34 psig (60 minutes)
FINAL SHUT-IN:	167 psig	101 psig (120 minutes)
FINAL HYDROSTATIC:	3012 psig	2973 psig

Bottom hole Temperature 114°F.

DRILL STEM TESTING OPERATION REPORT

District Hobbs, New Mexico Date 11/6 1990 Field Ticket 25R-72612
 Company Exeter Drilling Company (Betty Boyle & Son) 1230
 300 North Main St. #1230
 Midland, Texas 79701
 Name & Number Crow Flats #15 Federal Comm #1 DST No. #1 Est. Personel 1
 Operator Exeter Drilling Net Ft. Pay 30 Min.
44-01 Top Choke 14" Bottom Choke 3N" Flow No. 1 30 Min.
 Size Hole 7 7/8" Size Rat Hole 3 1/2" Shut-in No. 1 60 Min.
 Casing Size & Wt. 8 7/8" 31" 1st 10 3000' Flow No. 2 60 Min.
 Size & Wt. D. P. or Tubing 4 1/2" 16.60 Shut-in No. 2 120 Min.
 Size Wt. Pipe 16.5 Flow No. 3 1140 Min.
 I. D. of D. C. 3 1/4" Shut-in No. 3 1140 Min.
 Length of D. C. above Tool 744' Bottom Hole Temp. 1140
 Total Depth 6641' Mud Weight 9.1
 Interval Tested 6321'-6641' Gravity 30
 Interval Perforated CONVENTIONAL Viscosity 30
 Type of Test CONVENTIONAL Tool Opened @ 6:02 P.M.

Log Run Prior to Test: Yes ☐ No ☒

ed Hole Size @ Top Pkr. @ Bottom Pkr.

If flow gas NO in mins.

If flow oil NO in mins.

If flow water NO in mins.

did flow, during which flow or shut-in period did gas/fluid reach surface?
NONE

BOTTOM HOLE SAMPLER

Core In Sampler: 20 P.B.G.

Volume of Sample: 1600 cc

Volume of Sample: 1600 cc

Was Sample Drained? Ring Filter

0 cc

0 cc

2600 cc

0 cu ft

0

R. W.: 33240 PPM Titrate
0 Gas/Oil Ratio 0
 Up Water R. W.: 1
 It Sample R. W.: 34260 PPM

Bottom of Top Packer: 6513'
Bottom of Second Packer: 6521'
Top of Straddle Packer:
Top of Fourth Packer:
Length of Test Interval: 120'
Test Interval: Anchor: 25' Collars: 94' DP:
Below Straddle; Anchor: Collars: DP:
Was tool plugged? NO Was anchor plugged? NO
Did straddle pkr hold? Press. below straddle
REMARKS:

REMARKS: FAK # 915-685-019X
Test Ran For
Bettis Boyle + Stovall
P.O. Box 1240
Graham Texas 76046

Recorded No. _____ RAN Under Bridge Pk.

Press.	Field	Corrected	Press.	Field	Corrected	Press.	Field	Corrected
A	3012		IH	2973		IH		
K	3012		FH	2973		FH		
B	19		IF-1	16		IF-1		
C	19		FF-1	16		FF-1		
E	41		IF-2	34		IF-2		
F	41		FF-2	34		FF-2		
H			IF-3			IF-3		
I			FF-3			FF-3		
D	167		SIP-1	101		SIP-1		
G	167		SIP-2	101		SIP-2		
J			SIP-3			SIP-3		

TECHNICIAN _____ RESERVOIR ANALYSIS? NO WELL OWNERS REPRESENTATIVE (Please Print Legibly) _____

P. R. KAYS

00 / 057-20-37 (4/87)

GAS MEASUREMENTS

DATE	TIME
------	------

TIME

SEQUENCE OPERATIONS

Well Tester				Time		Location		Remarks	
Well	Tester	Time	Location	Time	Location	Time	Location	Time	Location
1115	2400	ON location + crew P.O.H.							
1116	2400	out of the hole + unload + make							
		Test Tools For DST #1							
		0145 T/H to Bottom of casing							
		0230 Wait to run in hole							
		0400 Finish T/H							
		0530 Tool on Bottom Rig up surface equipment							
		0602 Tool opened with weak blow + stayed							
		same throughout Flow Period (heavy skin bucket)							
		0632 Shut Tool in For 1st shut in Period							
		0732 open Tool For 2nd Flow period with no blow							
		+ remained dead throughout 2nd Flow period							
		0830 shut in For Final shut in							
		1030 Rig down surface equipment + PRN							
		1530 out of the + Break down + load out Test							
		Tools							

Beth's Boyle + Stovall
P.O. Box 1240
Graham Texas 76046

ILLEGIBLE

Question _____ Amount _____ Ft. _____
 Cushion _____ Amount _____ Ft. _____
 Total Fluid Recovered 60' Ft. Consisting of: Drilling mud
 _____ Ft. of _____
 _____ Ft. of _____
 _____ Ft. of _____
 _____ Ft. of _____
 _____ Ft. of _____
 _____ Ft. of Gas Recovered in Drill Pipe _____
 Test was not reverse circulated? WAS NOT
 Recovery _____
 Top Sample R.W. 35,400 PPM TITRATE
 Middle Sample R.W. _____
 Bottom Sample R.W. _____

ST TECHNICIAN

RESERVOIR ANALYSIS? NO

WELL OWNERS REPRESENTATIVE (Please Print Legibly)

FORM 100-1 (Rev. 4-15-64)

No. Final Copies

Tom Smith & Albert Bryan

--- COPY CARDS. (4) CANADIAN DISTRICT COPY: (2) PINK, CUSTOMER COPY: (4) GOLD, HOUSTON COPY

DEPARTMENT OF THE INTERIOR (Other instructions on reverse side)
BUREAU OF LAND MANAGEMENT

Expires August 31, 1985
5. LEASE DESIGNATION AND SERIAL NO.
NM-71766
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐ 91 DE 26 AM 10 20 RECEIVED
2. NAME OF OPERATOR Bettis, Boyle & Stovall Santa Fe Energy MAR 11 1991
3. ADDRESS OF OPERATOR P. O. Box 1240, Graham, Texas 76046 O. C. D. ARTESIA OFFICE
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Crow Flats "15" Fed Com
9. WELL NO.
1
10. FIELD AND POOL, OR WILDCAT
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 15, T-16-S, R-28-E
12. COUNTY OR PARISH
Eddy
13. STATE
N.M.

2180' FNL & 660' FEL of Sec. 15
14. PERMIT NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3576.9' GR

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) Completion Report

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.)

1/22/91: Move in and rig up Pride Well Service Unit. Unloaded and rack tubing, (2012'). Installed 11" X 300 by 9" 3000 tubing head, and 11" X 3000 BOP. Went in the hole with bit and tubing. Tagged at 2001' K.B. Spotted 250 gallons 10% Acetic acid at 1876'.

1/23/91: Pull out of the hole with tubing, collars and bit. Rig up Halliburton Logging Services, ran PDC log from 1993' to 1500' K.B. Ran and set CIBP at 1940' K.B. Perforate with 4" Premium charge casing gun from 1856' - 1874' K.B. with 36 holes (0.5" dia). Ran Baker Full packer, and 56 joints of tubing. Reverse with 6 barrels 2% KCL water. Removed BOP and set packer at 1810' K.B. with 35,000# tension. Displaced 250 gallons 10% acetic acid: Break down pressure at 1200 psig, pumped in at 2.5 BPM at 1340 psig. ISIP 840 psig, in 10 minutes 220 psig, in 35 minutes -0- psig. Total load to recover 16 barrels. Swabbed 2 hours, made 13 runs, 12th run from seating nipple. Recovered estimated 12 barrels load water. Recovered 2-3 gallons (last 2 runs) of water. Show of oil last 8 runs, 2' to 6' gas flare in and out.

1/24/91: 14 hour SITP 855 psig. Open and blew to 25 psig on 3/4" choke in 45 minutes. Very light spray of water with gas after 6 minutes. Made 1 swab run to seating nipple and recovered 1/4 barrel water. Hooked up Halliburton and treated with 2700 gallons MOD 101 acid and 54 ball sealers. Maximum treating pressure 1860 psig, average pressure 1620 psig, maximum rate 5.1 BPM, average injection rate 4.3 BPM. ISIP 1000 psig, in 15 minutes 350 psig. 75 barrels load to recover. Open and bled to pit at 9:00 AM

Continued on reverse side.

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

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

and rigged up swab. Made 15 swab runs in 4 1/2 hours, gas flare after 2nd run, recovered 10-60' of fluid on each of last 10 runs, pulling from seating nipple. Estimated recovery of 15 - 20 barrels load. Layed down swab and flowed to pit on 40/64" choke. At 1:45 PM FTP 32 psig on 40/64" choke, very lite acid water mist. At 2:00 PM same. At 2:30 PM FTP 35 psig, estimated 500 MCF/day. At 3:00 PM FTP 38 psig on 40/64" choke, flowing gas with light mist and pencil stream of water.

/25/91:

8:00 AM well flowing to pit on 40/64" choke, TP 65 psig, estimated 800 MCF/day with a drip of water. Shut in for pressure build up. In 1 minute 205 psig, 2 minutes 280 psig, 3 minutes 365 psig, 4 minutes 444 psig, and in 5 minutes SITP 510 psig. Continuation of shut-in pressures: 10 minutes SITP 710 psig, 15 minutes 780 psig, 30 minutes 840 psig, 45 minutes 845 psig, in 60 minutes 850 psig, in 75 minutes 857 psig, in 90 minutes 859 psig, in 105 minutes 860 psig. Opened well to pit on 40/64" choke at 10:00 AM. At 10:15 AM 67 psig (no fluid), at 10:30 AM 67 psig. Reduced to a 32/64" choke at 10:45 AM FTP 108 psig, at 11:00 AM FTP 109 psig, changed to a 24/64" choke. At 11:15 AM FTP 199 psig, at 11:30 AM FTP 199 psig. Changed choke to 16/64". At 11:45 AM FTP 361 psig, at 12:00 PM FTP 362 psig, at 1:00 PM FTP 365 psig, at 1:45 PM FTP 365 psig.

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Artesia, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED
Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

MAR - 4 1991

O. C. D.
ARTESIA, OFFICE

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Santa Fe Energy Operating Partners, L.P.	Well API No.
Address 550 W. Texas, Suite 1330, Midland, Texas 79701	
Reason(s) for Filing (Check proper box) New Well <input type="checkbox"/> Change in Transporter of: Recompletion <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Change of Operator effective Feb. 26, 1991 Change in Operator <input checked="" type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>	
If change of operator give name and address of previous operator Bettis, Boyle & Stovall, P. O. Box 1240, Graham, TX 76046	

II. DESCRIPTION OF WELL AND LEASE

Lease Name Crow Flats 15 Fed Com	Well No. 1	Pool Name, including Formation Wildcat Morrow	Kind of Lease State, <u>Federal</u> or Fee	Lease No. NM-71766
Location Unit Letter <u>H</u> : <u>2180</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>East</u> Line Section <u>15</u> Township <u>16S</u> Range <u>28E</u> , <u>NMPM</u> , <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When?

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (puot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature
Terry McCullough, Sr. Production Clerk

Printed Name
Feb. 26, 1991

Date
915/687-3551

Telephone No.

OIL CONSERVATION DIVISION

Date Approved MAR 6 1991

By

Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0134
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-71766

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P. O. Box 1240, Graham, Texas 76046

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

2180' FNL & 660' FEL of Sec. 15

14. PERMIT NO.

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

3576.9' GR

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crow Flats "15" Fed Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 15, T-15-S, R-28-E

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

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

(Other) Completion Procedure (Premier Sand) XXX

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.)*

1. Move-in and rig up completion equipment.
2. Perforate from 1,856-1,874' KB.
3. Acidize as required.
4. Swab/flow to clean-up and test.
5. Fracture treat as with volumes/rates as indicated by testing.
6. Flow to clean-up and test.
7. Shut-in well for pressure build-up.
8. Install surface equipment as required.
9. Run potential test.

RECEIVED

DEC 31 '90

O. C. D.
ARTESIA, OFFICE

RECEIVED
DEC 13 11 10 AM '90
CARROLL COUNTY OFFICE
ARTESIA, TEXAS

RECEIVED

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

SIGNED Sheryl A. Jones

TITLE Agent

DATE 12/11/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE 12 24 90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO

NM-71766

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crow Flats "15" Fed Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

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

Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P. O. Box 1240, Graham, Texas 76046

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

At surface

2180' FNL & 660' FEL of Sec. 15

14. PERMIT NO.

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

3576.9' GR

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) Daily Drilling & Plug Back.

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.) *

11/20/90: TD 9700'. Present operation: Trip. Ran DLL-MC-FDL-DSN-GR logs from 9700' to 9400'. Ran formation test log from 9700' - 8700'.

11/21/90: TD 9700'. Present operation: Plugging back. Details as follows:
Plug No. 1 at 9400' with 60 sacks Premium Plus Neat (1.32 cu.ft/sk yield, 14.8#)
Plug No. 2 at 8650' with 30 sacks Premium Plus Neat
Plug No. 3 at 7700' with 30 sacks Premium Plus Neat
Plug No. 4 at 6750' with 30 sacks Premium Plus Neat
Plug No. 5 at 5350' with 30 sacks Premium Plus Neat

11/22/90: Finish plugging back well.
Plug No. 6 at 2050' with 50 sacks Premium Plus Neat
Tag top of cement at 1930'.

Presently waiting on completion.

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

SIGNED

Sheryl D. Jones

TITLE

Agent

DATE

Dec. 10, 1990

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

Expires August 31, 1985
5. LEASE DESIGNATION AND SERIAL NO.

5F

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
Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR
P. O. Box 1240, Graham, Texas 76046

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
2180' FNL & 660' FEL of Sec. 15

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, WT, GR, etc.)
3576.9' GR

NM-71766

6. INDIAN, ALLOTTEE OR TRIBE NAME

UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Crow Flats "15" Fed Com

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
16
Sec. 15, T-15-S, R-28-E

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:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) TO AMEND ORIGINAL DRILLING PERMIT XXX	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	<input type="checkbox"/>

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

This Sundry Notice is to AMEND the original Application to Drill from a Wolfcamp (6750') or Strawn (8640') completion to a Premier Sand completion. The well was drilled to a total depth of 9700' K.B. and plugged back to 1930' K.B.

RECEIVED

DEC 31 '90

O. C. D.
ARTESIA, OFFICE

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

SIGNED Clifford A. Jones TITLE Agent DATE Dec. 10, 1990

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE 12-24-90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Form approved
Budget Bureau No. 1004-1
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL

NM-71766

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crow Flats "15" Fed Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

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.)

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P.O. Box 1240, Graham, Texas 76046

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

At surface

2180' FNL & 660' FEL OF Sec. 15

14. PERMIT NO.

15. ELEVATIONS (Show whether DE, RT, CR, etc.)

3576.9' GR

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 COMPLETION

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Weekly Drilling Reports

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

7. 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.)*

3/90: Drilling at 5770', made 560' in 21 hours. Formation dolomite, sand and shale. Deviation survey at 5280' misrun, at 5314' 1/4°.

4/90: Drilling at 6288', made 518' in 22 1/2 hours, formation dolomite and sand. Deviation survey at 5785' 3/4°.

5/90: Drilling at 6570', made 282' in 15 1/2 hours, formation dolomite. Deviation survey at 6420' 1 1/2°.

6/90: Present depth 6640', made 70' in 2 1/2 hours. Formation dolomite and sand. Present operation: Waiting on daylight run DST No. 1 from 6521' to 6640', Base of the Abo. Copy of DST report attached.

7/90: Drilling at 6745', made 105' in 6 hours. Formation dolomite.

8/90: Drilling at 7080', made 335' in 22 1/2 hours. Formation dolomite and lime. Deviation survey at 6825' 1 1/4°.

9/90: Drilling at 7433', made 353' in 22 1/2 hours. Formation dolomite and lime. Deviation survey at 7331' 1 1/4°.

10/90: Drilling at 7645', made 212' in 13 1/2 hours, formation dolomite and lime.

11/90: Drilling at 7859', made 214' in 16 hours, formation dolomite and lime.

12/90: Drilling at 8164', made 305' in 22 1/2 hours, formation lime and shale. Deviation survey at 7922' 3/4°.

I hereby certify that the foregoing is true and correct

SIGNED A. J. L. Torres

TITLE Agent

DATE 11/19/90

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

Adm

DATE

DEC 03 1990

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-1
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL

NM-71766

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crow Flats "15" Fed Com

9. WELL NO.

1

10. FIELD AND POOL OR WILDCAT

Wildcat

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

Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH 13. STATE

Eddy

N.M.

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.)

GAS ☐ WELL ☒ GAS ☒ WELL ☐ OTHER

RECEIVED

2. NAME OF OPERATOR

Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P. O. Box 1240, Graham, Texas 76046

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

See also space 17 below.)

At surface

DEC 5 '90

O. C. D.

ARTESIA, OFFICE

2180' FNL & 660' FEL of Sec. 15

14. PERMIT NO.

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

3576.9' GR

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 PLANE

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Weekly Drilling Report

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 perti-
nent to this work.)*

'13/90: Drilling at 8353', made 189' in 13 hours. Formation Shale and lime.
'14/90: Drilling at 8575', made 222' in 22 hours. Formation shale and lime.
'15/90: Drilling at 8972', made 397' in 23 hours. Formation shale and lime.
Deviation survey at 8736' 1°.
'16/90: Drilling at 9212', made 240' in 19 hours. Formation shale and lime.
'17/90: Present depth 9347', made 135' in 13 hours. Formation shale and lime.
Present operation washing to bottom. Deviation survey at 9347' 1
1/4°.
'18/90: Present depth 9600', made 253' in 21 hours. Formation shale and lime.
Present operation tripping.
'19/90: TD 9700, made 100' in 9 1/2 hours. Formation shale and lime. Present
operation logging. Deviation survey at 9700' 1°.

NOV 23 11 26 AM '90

RECEIVED

RECEIVED

I hereby certify that the foregoing is true and correct

SIGNED Sheryl S. Dumas

TITLE Agent

DATE 11/19/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL IF ANY:

*See Instructions on Reverse Side

BETTIS BOYLE AND STOVALL
CROWFLATS "15" FED COM NO. 1
EDDY COUNTY, NEW MEXICO

DST NO. 1 (Conventional) from 6521' - 6641' (120') (LOWER ABO)

Initial Flow: 30 minutes
Tool opened with weak blow and stayed same
throughout flow period (barely skim bucket).

Initial Shut-in: 60 minutes

Second Initial Flow: 60 minutes
Open tool with no blow and remained dead through-
out flow period.

Final Shut-in: 120 minutes.

RECOVERY

Drill Pipe: Recovered 60' of drilling mud.

Sample Chamber: 30 psig, recovered 2600 cc drilling mud.
Sample R.W. 33,240 ppm Titrate
Pit sample 34,260 ppm chlorides.

PRESSURES (FIELD)

	TOP Chart	Bottom Chart
INITIAL HYDROSTATIC:	3012 psig	2973 psig
INITIAL FLOW:	19 - 19 psig	16 - 16 psig (30 minutes)
INITIAL SHUT-IN:	167 psig	101 psig (60 minutes)
FINAL FLOW:	41 - 41 psig	34 - 34 psig (60 minutes)
FINAL SHUT-IN:	167 psig	101 psig (120 minutes)
FINAL HYDROSTATIC:	3012 psig	2973 psig

Bottom hole Temperature 114°F.

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐ Nov 5 11 42 AM '90 2. UNIT AGREEMENT NAME 5K 3. NAME OF OPERATOR Bettis, Boyle & Stovall OIL CONSERVATION DIVISION AREA 1 RECEIVED NOV 9 '90 4. ADDRESS OF OPERATOR P. O. Box 1240, Graham, Texas 76040 19 AM 9 42 RECEIVED 5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2180' FNL & 660' FEL of Sec. 15 6. FIELD AND POOL, OR WILDCAT Wildcat 7. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 15, T-16-S, R-28-E 8. COUNTY OR PARISH Eddy 9. STATE NM 10. PERMIT NO. 11. ELEVATIONS (Show whether DF, RT, GR, etc.) 3576.9 GR 12. O.C.D. ARTESIA, OFFICE

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

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

14. 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.)

10/24/90: Drilling at 1481', made 626' in 19 1/2 hours, formation anhydrite. Deviation survey at 937' 1 1/4°, at 1411' 1°.

10/25/90: Present depth: 2000', made 519' in 19 hours. Formation anhydrite and salt. Present operation: Laying down drill collars to run intermediate casing.

10/26/90: Present depth 2000'. Present operation: Waiting on cement and 1". Deviation survey at 2000' 1/4°.

CASING REPORT:

Ran 48 joints of 8 5/8" 32#/ft., set at 2000'. Guide shoe, float collar. Cemented with 400 sacks Halliburton Lite with 18% salt, tailed in with 200 sacks Premium Plus with 2% CACL2. Waited 8 hours ran temperature survey, Top of cement at 720'. Ran 1" and tagged cement at 795'. Cemented with 400 sacks Halliburton neat with 2% CACL2, did not circulate cement.

10/27/90: Drilling at 2022', made 22' in 2 hours. Formation lime. ~~hour cement, 3 1/2 hours WOC, 13 hours nipple up and nipple down,~~ Finished 1" cement. Pumped 130 sacks Premium with 2% CACL2. Circulated 42 sacks cement to surface. Plug down at 10:30 AM. BLM on location during 1".

10/28/90: Drilling at 2504', made 481' in 21 hours. Formation dolomite.

10/29/90: Drilling at 3373', made 869' in 22 hours. Formation dolomite. Deviation surveys at 2504' 1°, at 3013' 3/4°.

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

SIGNED Sheryl L. Jones TITLE Agent DATE 11/2/90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crow Flats "15" Fed Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 15, T-16-S, R-28-E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P. O. Box 1240, Graham, Texas 76046

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

At surface

2180' FNL & 660' FEL of Sec. 15

14. PERMIT NO.

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

3576.9 GR

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)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Weekly Drilling Report

(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.)*

10/30/90: Drilling at 3900', made 527' in 22 hours. Formation dolomite. Deviation survey at 3496' misrun, at 3527' 1/4°.

10/31/90: Drilling at 4412', made 412' in 23 hours. Formation dolomite. Deviation survey at 4002' 3/4°.

11/1/90: Present depth 4826', made 414' in 19 hours. Formation dolomite and sand. Present operation: Trip for new bit. Deviation survey at 4498' 1/2°, at 4826' 3/4°.

11-2-90: Drilling at 5210', made 384' in 18 hours, Formation dolomite and sand.

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

SIGNED Sheryl L. OrmsTITLE AgentDATE 11/2/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985
3. LEASE DESIGNATION AND SERIAL NO.

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 Bettis, Boyle & Stovall
3. ADDRESS OF OPERATOR P. O. Box 1240, Graham, Texas 76046
4. LOCATION OF WELL (Indicate location clearly and in accordance with any State requirements. See also space 17 below.)
2180' FNL & 660' FEL of Sec. 15
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3576.9 GR
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 ☐ FRACTURE TREAT ☐ MULTIPLE COMPLETE ☐ SHOOT OR ACIDIZE ☐ ABANDON* ☐ REPAIR WELL ☐ CHANGE PLANS ☐ (Other) ☐
SUBSEQUENT REPORT OF: WATER SHUT-OFF ☐ REPAIRING WELL ☐ FRACTURE TREATMENT ☐ ALTERING CASING ☐ SHOOTING OR ACIDIZING ☐ ABANDONMENT* ☐ (Other) Drilling Report & Surf. Casing XX
(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.)
10/20/90: Drilling at 142', made 142' in 3 hours. Formation surface rock.
10/21/90: Depth 358', made 212' in 6 hours, formation surface rock. Present operation: Nippling up. Deviation survey at 358' 1°.
CASING REPORT:
Ran 10 joints of 13 3/8" 48#/ft., H-40 casing set at 358'. Cemented with 350 sacks Class "C" with 2% CACL2. Plug down at 5:00 PM 10/20/90. Circulated 25 sacks to pit. BLM not there to witness, Exeter Drilling had notified.
10/22/90: Present depth: 358'. Present operation: Trip for plugged bit. 1 1/2 hours test BOP.
10/23/90: Drilling at 855', made 500' in 19 1/2 hours. Formation anhydrite and salt. Deviation Survey at 450' 3/4°.

RECEIVED FOR RECORD

OCT 20 1990

CARLSBAD, NEW MEXICO

18. I hereby certify that the foregoing is true and correct
SIGNED Sheryl L. Jones TITLE Agent DATE 10/23/90
(This space for Federal or State office use)

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

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS. Other instructions on
reverse side ON
Artesia, NM 88210

CONSERVATION DIVISION

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

1. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐

DEEPEN ☐

PLUG BACK ☐

2. NAME OF OPERATOR

Bettis, Boyle & Stovall

3. ADDRESS OF OPERATOR

P. O. Box 1240, Graham, Texas 76046

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

At surface
2180' FNL & 660' FEL, Section 15, T16S-R28E

At proposed prod. zone
2180' FNL & 660' FEL, Section 15, T16S-R28E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10.5 miles NW of Loco Hills

15. DISTANCE FROM PROPOSED*

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

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. N.A.

16. NO. OF ACRES IN LEASE

480

19. PROPOSED DEPTH

9600'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

3576.9' GR

22. APPROX. DATE WORK WILL START*

10-15-90

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5	350'	325 sx CIRCULATE
11"	8 5/8"	24/32	2000'	800 sx CIRCULATE
7 7/8"	4 1/2"	11.6/13.5	9600'	400 sx (see slips)

Mud Program:

0 - 350'	FW Spud mud	MW 8.4 - 9.0
350 - 2000	FW (Brine)	MW 8.5 - 10.0
2000 - 7600	FW (Brine)	MW 8.5 - 10.0
7600 - 9600	Brine, gel, Drispac, Starch	MW 8.8 - 10.0

BOP Program:

See Exhibit "E".

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

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

TITLE Agent

DATE 8-29-90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
SEP 12 10 31 AM '90
CARLISLE AREA OFFICE

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

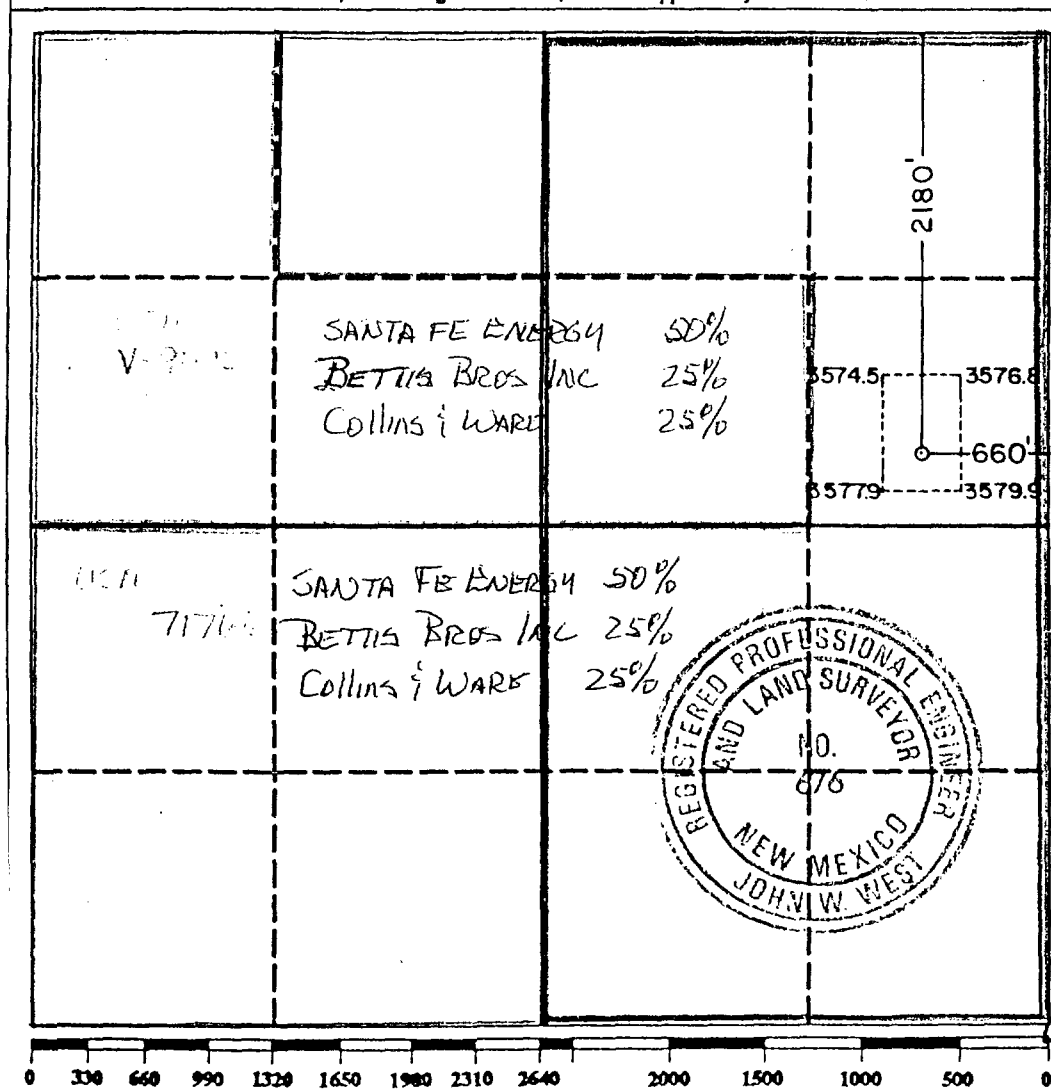
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section.

Operator BETTIS BOYLE & STOVALL			Lease Crow Flats Federal 15		Well No. 1
Unit Letter H	Section 15	Township 16 South	Range 28 East	County Eddy	
Actual Footage Location of Well: 2180 feet from the North line and 660 feet from the East line					
Ground level Elev. 3576.9	Producing Formation Mudflow		Pool WILDCAT	Dedicated Acreage: 320 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>[Signature]</i> Signature LARRY M BETTIS JR Printed Name AGENT Position BETTIS BOYLE & STOVALL Company 8/13/90 Date	
SURVEYOR CERTIFICATION 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 August 6, 1990 Signature & Seal of Professional Surveyor <i>[Signature]</i> Certificate No. JOHN W. WEST, 876 RONALD J. EIDSON, 3239	

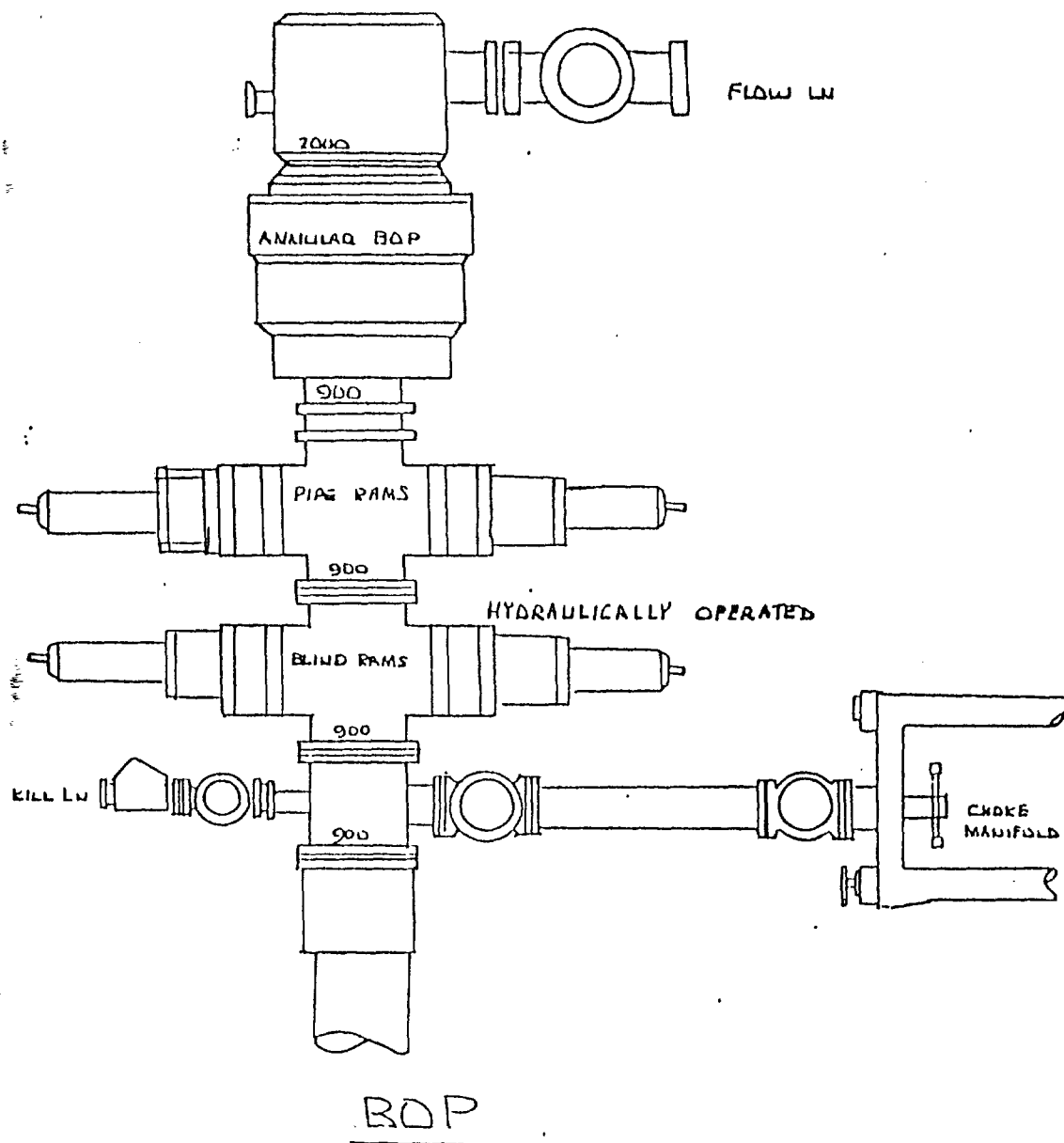


EXHIBIT "E"
 BETTIS BOYLE & STOVALL
 CROW FLATS FED COM "15" NO. 1
 2180' FNL & 660' FEL SEC. 21, T16S, R28E
 BOP Equipment Schematic

IBIT E

Date July 31, 1989

Company Bettis Brothers Location Sec 15, T16S, R28E

Well Name Eddy County Prospect County Eddy State NM

CASING PROGRAM

13 3/8" @ 400'

8 5/8" @ 2,000'

TD @ 9,600'

RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	pH		
0-400'	8.4-9.0	32-38	NC	10.0		
<p>Drill with Milgel (15-20 lb.bbl), Mil-Lime (1-2 lb.bbl) spud mud, circulating steel pits. Add Cottonseed Hulls and Mil-Fiber for lost circulation. If returns cannot be regained, dry-drill to casing point and spot a viscous pill to ensure proper pipe placement.</p>						
400'-2000'	8.5-10.5	32-34	NC	9.0-10.0		
<p>Drill out with Fresh Water, circulating the reserve pits and mixing Lime for pH maintenance. Utilize native solids to achieve a 32-34 sec/1000 cc funnel viscosity, add water at the flowline as needed to control viscosity in this range. Begin additions of 10.0 lb./gal Brine prior to drilling the anhydrite and salt sections to minimize washouts. Sweep hole with viscous Salt Water Gel or Dyna Sweep pills prior to running pipe. Add Paper-Ox to control seepage; greater losses will usually require Gel/LCM pills.</p> <p>For lost circulation, mix a viscous pill consisting of Salt Water Gel (10-20 lb./bbl) and Kwik Seal (10-20 lb./bbl) pump as a sweep at a reduced pump rate to regain returns.</p>						
<p>EXHIBIT "F" BETTIS BOYLE & STOVALL CROW FLATS FED COM "15" NO. 1 2180' FNL & 660' FEL SEC. 21, T16S, R28E Mud Program</p>						

Date July 31, 1989

Company Bettis Brothers Location Sec 15, T16S, R28E

Well Name Eddy County Prospect County Eddy State NM

RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	pH		
2000'-7600'	8.4	28-30	NC	10.0-10.5		
<p>Drill out with existing system, circulating the reserves for solids control and mixing Mil-Lime for pH maintenance. Add non-selective flocculant (Jet Jel, Selec Floc) at the flowline to drop out fine drilled solids and maximize use of reserve pit area. Add fresh water or 10.0 lb./gal Brine to control fluid weight to required level for increased wellbore stability. Viscous pills consisting of Milgel, Mil-Lime or Dyna-Sweep, pumped as a sweep, will clean wellbore, as well as seal off fractured and permeable zones and minimize losses. Mud up with Salt Water Gel or sweep hole (100-150 bbl) to ensure successful casing and or logging operations.</p> <p>While drilling with clear fluid, it may be necessary to periodically sweep the hole with Salt Gel or Dyna Sweep pills to assure adequate hole cleaning. Cutting transport depends on cuttings' size and density, fluid weight and viscosity, and annular flow rates. To transport cuttings uphole with clear water, annular fluid velocities of about 100 ft/min are needed. If annular flow rates are too low to clean the hole, then drilled solids will build up in the annulus, reducing penetration rate and increasing the risk of lost circulation.</p> <p>Seepage losses are usually controlled with Ground Paper additions; more severe losses may require Gel/LCM (fiber, Multi-Seal, etc.) pills. For lost circulation, mix a viscous pill consisting of Salt Water Gel (10-20 lb./bbl) and Kwik Seal (10-20 lb./bbl) pump as a sweep at a reduced pump rate to regain returns.</p>						
7600'-9600'	8.8-9.2	32-36	10-12	9.0-9.5		
<p>Return to steel pits, treat make up water with Soda Ash (hardness below 100 mg/l) and Caustic Soda (.3-.5 lb./bbl). Mix Drispac (.5-1.5 lb./bbl) for filtrate control and Potassium</p>						

Date July 31, 1989

Company Bettis Brothers

Location Sec 15, T16S, R28E

Well Name Eddy County Prospect

County Eddy State NM

RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	pH		
<p>Chloride for added shale inhibition. Add pre-hydrated Milgel slurry to supplement polymers for viscosity.</p> <p>NOTE: KCL muds will exhibit slow increase in chlorides (when potassium base exchange is occurring if the same concentration of K⁺ (potassium) is maintained.</p> <p>With property adjustments as dictated by hole conditions, this fluid should provide excellent properties for drilling, testing, logging, and casing operations.</p>						

WRS COMPLETION REPORTCOMPLETIONS SEC 15 TWP 16S RGE 28E
PI# 30-T-0002 08/09/91 30-015-26490-0000 PAGE 1NMEX EDDY * 2180FNL 660FEL SEC SE NE
STATE COUNTY FOOTAGE SPOT

BETTIS-BOYLE-STOVALL WF WSD

OPERATOR WELL CLASS INIT FIN

1 CROW FLATS "15" FEDERAL COM

WELL NO. LEASE NAME

3601KB 3577GR UNNAMED

OPER ELEV FIELD/POOL/AREA

API 30-015-26490-0000

LEASE NO PERMIT OR WELL I.D. NO.

10/20/1990 02/14/1991 ROTARY VERT GAS

SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS

9600 MORROW EXETER DRLG 44 RIG SUB 23

PROJ. DEPTH PROJ. FORM CONTRACTOR

DTD 9700 PB 1940 FM/TD CHESTER

DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

LOCATION DESCRIPTION

13 MI NW LOCO HILLS, NM

2 1/2 MI SE/9200(ATOK-MRRW) GAS PROD IN DIAMOND MND FLD

WELL IDENTIFICATION/CHANGES

FIELD CHGD FROM WILDCAT

CASING/LINER DATA

CSG 13 3/8 @ 358 W/ 350 SACKS

CSG 8 5/8 @ 2000 W/ 1130 SACKS

TUBING DATA

TBG 2 3/8 AT 1815

INITIAL POTENTIALIPF 288 MCFD 11/64CK 1HRS
PREMIER PERF W/ 36/IT 1856- 1874

SITP 840

@ 1855FT

BHT 80F

8/64CK 238MCFD TP 766 BHFP 798

9/64CK 280MCFD TP 710 BHFP 738

10/64CK 256MCFD TP 524 BHFP 541

11/64CK 288MCFD TP 501 BHFP 516

BH 877 FPCAOF 359MCFD

GOR DRY

GAS GTY .803

CONTINUED IC# 300157026390

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COMPLETIONS SEC 15 TWP 16S RGE 28E
PI# 30-T-0002 08/09/91 30-015-26490-0000 PAGE 2

BETTIS-BOYLE-STOVALL WF WSD
1 CROW FLATS "15" FEDERAL COM

INITIAL POTENTIAL

P/L CON NONE
FIELD

/RESERVOIR
/PREMIER SD

1ST THRU 4TH PT TEST IN 60 MINS

TYPE	FORMATION	LTH	TOP	DEPTH/SUB	BSE	DEPTH/SUB
LOG	YATES		416	3185		
LOG	QUEEN		1123	2478		
LOG	SN ANDRS		1908	1693		
LOG	GLORIETA		3360	241		
LOG	TUBB		4618	-1017		
LOG	ABO		5362	-1761		
LOG	WOLFCAMP		6768	-3167		
LOG	CISCO		7692	-4091		
LOG	CANYON		8064	-4463		
LOG	STRAWN		8651	-5050		
LOG	ATOKA		9066	-5465		
LOG	MORROW		9314	-5713		
LOG	CHESTER		9418	-5817		

SUBSEA MEASUREMENTS FROM KB

FORMATION TEST DATA

DST 1 6521- 6641 ABO L
REC 60.0 FT MUD 2600.0 CC MUD
INIT OP 30M IFP 19 FFP 19
FINAL OP 1H IFP 41 FFP 41 BHT 114F
ISIP 167 1H FSIP 167 2H IHP 3012 FHP 3012
WS 34260 PPM CL

PRODUCTION TEST DATA

PTF 500 MCFD 40/64CK 24HRS
PREMIER PERF 1856- 1874
PERF 1856- 1874
ACID 1856- 1874 2700GALS
TP 35
FM - PREMIER SD

PTF 359 MCFD 24HRS
PREMIER PERF 1856- 1874

CONTINUED

COMPLETIONS SEC 15 TWP 16S RGE 28E
PI# 30-T-0002 08/09/91 30-015-26490-0000 PAGE 3

BETTIS-BOYLE-STOVALL WF WSD
1 CROW FLATS "15" FEDERAL COM

PRODUCTION TEST DATA

FM - PREMIER SD

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS	DLL	DSN	DENL
LOGS	SDBL		

DRILLING PROGRESS DETAILS

BETTIS-BOYLE-STOVALL
BOX 1240
GRAHAM, TX 76046
817-549-0780
LOC/1990/
09/25 RURT
10/17 DRLG 855
10/23 DRLG 3900
10/30 DRLG 6640
11/06 DRLG 8164
11/13 9700 TD, RNG LOGS
11/20 9700 TD, WOCT
11/30 PB OH TO 1940
02/01 9700 TD, PB 1940, TSTG
02/08 9700 TD, PB 1940, SI EVAL
03/08 9700 TD, PB 1940, WOPT
04/05 9700 TD, PB 1940, WO STATE FORMS
08/02 TD REACHED 11/18/90 RIG REL 11/22/90
9700 TD, PB 1940
COMP 2/14/91, IPCAOF 359 MCFGPD, GOR DRY,
GTY (GAS) .803, SIWHP 840,
SIBHP 877
PROD ZONE - PREMIER SD 1856-1874
NO CORES, ONE DST RPTD
08/02 PREMIER SD DISCOVERY - SHALLOWER POOL