#### JAMES BRUCE

Attorney at Law
Post Office Box 1056
Santa Fe, New Mexico 87504
Telephoue: (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: 4 (Including Cover Sheet)

DATE SENT: 6/24/02

MEMO:

#### 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.

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 Vandaquiff-Keyes (Queen) Gas Pool, in the E% \$27-16S-28E.

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

Very truly yours,

ames Bruce

Attorney for Devon SFS Operating, Inc.



# NEW Maxico Energy, MINARALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Cavernor

BETTY RIVERA

Cabinet Secretary

June 13, 2002

Lori Wrotenbery
Director
Oll Conservation Division

Devon SFS Operating, Inc. c/o James Bruce P. O. Box 1956 Santa Fe, New Mexico 87504

Re: Administrative application submitted on June 6, 2002 (application reference No. ph. VO-216135264) for an unorthodox Queen gas well location for Devon SFS Operating, Inc.'s existing Crow Firs "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 for pation; The other reason I called is that the Division's records show 160 acre Wildest 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 no 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,

cc:

Michael E. Stogner

Chief Hearing Officer/Engineer

Tim Gum, Supervisor - NMOCD, Artesia

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# 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:

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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.

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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



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## 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:

Well: Crow Flats 15 Fed. Com. Well No. 1 (30-015-26490)

Location: 2180 feet FNL & 660 feet FEL

Well Unit: NE% 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% of Section 15 also covers 120 acres within the well unit. The remaining 40 acres (the SW%NE%) 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,

ames Bruce

Attorney for Devon SFS Operating, Inc.

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Chief TO KS ( No. 1915 Com) ( 1955)

Sale ( No. 2016 Com) ( 1955)

Hersey & Co

Interest Owner	Address1	Address2	Cert. No. 7001 0360 000 2116	WĮ	Fax No.	ı
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				1
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% 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,  Hames Bruce		
Attorney Devon SFS Operating, Inc.		
I/we do not object to the unorthodox location.		
Name:		
By:		
Date:	nberg No. 5208	EXHIBIT

#### 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

- A

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"

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3. Appress of ure	nyle & Stova	** Janela	1 post	nenga		O, (	<del>- 0,</del>			1	
Р. О. Вох	1240, Graha	m, Texas	76046	00			, OFFICE	1	10. PIELD	APD POC	L OR WILDCAT
4. LOCATION OF WEI		80' FNL &					14)*		Wile		
						محد			OR ARI	., B., M.	OK BLOCK AND BURNEY
At top pred. Int	terval reported belov	« 2180)	FNL & (	56U' 1					_	- <del>-</del>	1 <b>.</b>
As total depth	2180' FNL	& 660' FE			Control of the second s	Cateway and	CHANGE WITH THE PROPERTY OF TH	·	4mm - 1 - 1 - 1 - 1		-1 <b>5</b> 5, R28-E
			14. FER	MIŢ NO.		DATE	asyes!		12. COUNT	r one	13. RTATE
15. DATE BILDER	IG. DATE T.D. AEA	CHEB   IT. DAT	E COMPL. (	Ready to	prod.)   18	. ELE	VATIONS (D	r. RKB. I	Fody	19.	ELEY CABINGHEAD
10/20/90	11/18/9		1/2	5/91			' GR				NA
20. TOTAL BEPTH, MED	. (	FACH E.P., NO A 40' (CIBP	1	17 MC3.	titus compe.	4	23. 1871 DRIL	BILATA? TO GSJ.	ADTABLE TO Al		CANLE TOOLS
9.700				YANE ()	AD AND TABLE		44.00	<del>&gt;</del>	, , , , , , , , , , , , , , , , , , , ,		5. WES DIRECTIONAL
	<b>F</b>			•		,		٠.	•		SORAKE WYDE
·	1874' Premi				Of 1						No
DLL-MG, SE		×			,			,	,	27.	NO NO
25	, I DO-DONC	CAS!	NG BECO	RD (Rep	ert all strings	e art i	in reciti	THE PARTY OF THE PARTY NAMED IN	·	<u> </u>	ang talaghi pakin nganggapagan anana manana manana maganing makayang angga anana
TEIR OFFEAS	WEIGHT, LE./FX			- VANAGES A. J	LE PIRE			ÉSTISE	PECORD		AMOUNT PULLED
13-3/8	48		58	A secretarian de la constitución	7 1/2		350 s	acks			None .
8-5/8	32		00	1	1	1	,130 s	acks			None
***************************************			-	************		<u></u>					
29.	Li	NER RECORD					30.	7	CBING RE	CORD	
東京大学	TOP (MD) 8	(ak) kotto	SACKE CE	MENT?	SCREEN (H	<b>1</b> ) ]	AIZE		0FF7H #87		FACERR SET (MD)
						maraname.	2~3/	<u>-</u>  _	1815.3	2	1809.57
21. PERSONATION REC	orp (Interval, size	and number)	1 .		182	AC	nd, shot,	FRACT	URE. CEME	NT 801	VEEZE, ETC.
10561 10		. \ (0 *"	\	•	DEFIN INT	FRAYA:	L (Mr)	PE A	OUNT AND X	IND OF	MATERIAL CRED
1826, - 16	374' (36 hol	es) (U.5"	dia)	•	1856	18	74	1	<b>*</b>		Acetic Acid
								_2700	_gallon	JOM_R	LIN1_Acid
						riced to more delivers.			MANAGE STATE AND AND ASSESSMENT STATE OF THE		The state of the s
SS.* DATE FIRET PRODUCTS					UCTION						
NIA	_	CON METHOD ()	iaucing, ga	e (1)1, p)	mping	and t	ppe of pun	*p)	47	1 sa t - i re }	in (Freducing or
DATE OF TEST	HOURS TESTED	CHORE BIZE	F800'N.		CIL—BB1		9A2	`t`.	WATER	Shut-	- ID QAS-DIL BATIO
2/14/91	24	1/2"	TERR	ERIOD	-0-		510		-0-		———
FLOW, TURING PASSE.	CABING PAREEURE	CALCULATED 24-BOUR BAT			HAB		1	WATER-		012	PRAYITY-AFX (CORR.)
65 34, direction or ga	PKI.	el, vented, etc.)				510	1	· ras	O- TERT WATH	kasko i	
To be sold	. Presentl	y waiting	on pi	elin	e connec	tio	n				bey on phosen
35. LIST OF ATTACM)	RTKIR				,	···	r out the	и <u>н </u>		· · · · · · · · · · · · · · · · · · ·	SJS
DST report	that the foresting	est, devi	ation s	urve'	y, logs.						
	And the Rolling	AND ALLMEITER IT	TO CAUTA CHOM	ia compi	tre and cotte	ERE AS	aetermine	⊸, a stomi	). Bit Fratiable	• 1 .*	48 1 1531
SIGNED FA	WILL + W	(E) 11.0	I 10 TIT	LE	Agent /C	277	dist	Mr.	DA	re`	2/27/91
	*(See )	nstructions ar	d Space	s fer A	dditional [	Data	on Reve	ne Sid	e) ~~/~.\\	1255	D. ALEW WENTER

٠.,

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.

		TRUE VERT DEPTH	416* 1123* 1908* 3360* 4618* 5362* 6768* 7692* 8074* 8651* 9066* 9314*	
geologic markers	TOP	MEAS, DEPTH	4161 11231 11231 19081 53601 67681 76921 80741 90661 793147 793147	
38. GEOL		NAME	Yates Queen San Andres Glorieta Tubb Abo Wolfcamp Cisco Canyon Strawn Atoka Morrow Chester	
zones of potosity and contents thereof; cored intervals; and all shion used, time tool open, flowing and shut-in pressures, and	DESCRIPTION, CONTEXTS, ETC.		No. 1 (Conventional Test) Recovered 60' of drilling mud. Sample Chamber recovered 2600 cc drilling mud. 30 psig. See attached for further information.	
ow all important erval lested, cus	BOTTOM	,	6641'	
OUS ZONES: (Sheluding depth int	TOP		6521	
37. SUMMARY OF POROUS ZONES! (Show all important zones of garill-stem, tests, including depth interval tested, cushion user recoveries):	FORMATION		Lower (Abo)	

# ATTACHMENT "C"

Form	3160-5
June	1990)

Oli	CONSERVATION DIV	
811	S. 1st ST.	

PROVED

Budget Bureau No. 1004-0135						
Budget Bur	eau No. 10	04-0135				
Expires;	March 31,	1993				

orm 3160-5	UNITED STA	37115	SIA, NN Budget Bureau No. 1004-0135
(une 1990)	DEPARTMENT OF TH BUREAU OF LAND MA		VIS Of Expires: March 31, 1993  5. Lease Designation and Serial No.
. * 			NM-71766
	UNDRY NOTICES AND REPORT	91 1 E 1 1 1 A	6. If Indian, Allottee or Tribe Name
	"APPLICATION FOR PERMIT -	pen or reentry to a different reservoir.	
	SUBMIT IN TRI	PLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Y Gas			8. Well Name and No.
Oil Gas Well  Name of Operator	Other	<del></del>	——Crow Flats "15"
=	y Resources, Inc.		Fed Com #1
3. Address and Telephone No.		707010151507 0571	30-015-26490
	uite 1330, Midland, TX Sec., T., R., M., or Survey Description)	/9/01915/687-3551	10. Field and Pool, or exploratory Area
	60' FEL, Sec. 15, T-1	6S R-28F	Wildcat
ZIOO THE GO	00 122, 500. 15, 1 1	03, R 202	11. County or Parish, State
			Eddy NM
12. CHECK AP	PROPRIATE BOX(s) TO IN	DICATE NATURE OF NOTICE, REPOF	RT, OR OTHER DATA
TYPE OF SUB	MISSION	TYPE OF ACTIO	DN .
Notice of Ir	ntent	Abandonment	Change of Plans
		Recompletion	New Construction
X Subsequent	Report	Plugging Back	Non-Routine Fracturing
П		Casing Repair	Water Shut-Off
Final Aband	donment Notice	Altering Casing	Conversion to Injection
		X Other <u>Request SI statu</u>	Dispose Water (Note: Report results of multiple completion on Well
			Completion or Recompletion Report and Log form.)
		ails, and give pertinent dates, including estimated date of s r all markers and zones pertinent to this work.)*	tarting any proposed work. If well is directionally drill
extension of its	Resources, Inc. respe current shut-in stat rrently uneconomic to	ctfully requests that this we us. The well is completed ar connect to pipeline.	ell be given a one year nd capable of production,
Santa Fe continu additional well	es to evaluate the vi	ability of the VET ve	elopment in this area. An
		JAN 2 3 1895	SPRECIAND EN
		oil con. Div/	of Killing sal
	Approved for all 2.	. Harris Valled Milet 2	DEC 0 6 1995
Th	is Approval of Tempor	2/2001	C DIST. 6 N.M.
14. I hereby certify that the fore	egoing is true and correct	Tide Sr. Production Clerk	Date 12/4/95
(This space for Federal or St	ate office use) grad by Addes Salamete	Title Potroloum Engineer	Juntas
Approved by Conditions of approval, if an		Title CARLESTIN STATEMENT	Date 1 19 96

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.

NM OIL CONS COMMISSION

Drawer DD Artesia, NM 88210

UNITED STATES
June, 1999) JUNE BUREAU OF LAND MANAGEMENT

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

Expires: March 31, 1993

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 reentry to a different reservoir.

OSE APPLICATION FOR PLINIT — TOI SUC	ir proposais	
SUBMIT IN TRIPLICATE	RECEIVED)	. If Unit or CA, Agreement Designation
Type of Well  Oil  Well XX Well  Other  Name of Operator  Santa Fe Energy Operating Partners, L.P.  Address and Telephone No.	JN - 9. 94  0. C. D.	Weil Name and No.  Crow Flats 15 Fed Com #  API Weil No.
550 W. Texas, Suite 1330, Midland, Texas 7 Location of Well (Footage, Sec., T., R., M., or Survey Description)  2180' FNL and 660' FEL, Sec. 15, T-16S, R-28E	11	Wildcat County or Parish, State  Eddy Co., NM
CHECK APPROPRIATE BOX(s) TO INDICATE NA	ATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Subsequent Report    Reco   Plugg   Casir   Final Abandonment Notice   Alter	idonment impletion ging Back ng Repair ring Casing	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection
Other      Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent details).	Request SI status	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

3. 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  $\frac{12}{5/17/95}$  MONTH PERIOD ENDING  $\frac{5/17/95}{12/95}$ 

1				
14: Thereby 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	Tide	PETROLEUM ENGINEER	Date	6/7/94
Conditions of approval, if any:				<del></del>

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.

□ Dispose Water

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

, </th <th>NM OIL CORD. COMMIDDIO</th> <th></th>	NM OIL CORD. COMMIDDIO	
CENE	Drawer DD	
RECEIVED W.93	Artesia, NM 86210 CONSERV	IN DIVISION
une 1990) DEPARTMEN	T OF THE INTERIOR	FORM APPROVED  Budget Bureau No. 1004–0135  Expires: March 31, 1993
I AO NASKUA	AND MANAGEMENT	billease Designation and Serial No.
NAME OF THE PROPERTY OF THE PR		NM-71766
Do not use this form for proposals to dri	AND REPORTS ON WELLS MAY 0.3.1993. If or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name
SUBMIT	IN TRIPLICATE	7. If Unit or CA. Agreement Designation
Type of Well Oil X Gas Well Vell Other		8. Well Name and No.
Well Well Other  2 Name of Operator		
,	/	Crow Flats 15 Fed Com #
Santa re Energy Ope  3. Address and Telephone No.	rating Partners, L.P.	2. Art wen no.
	W: 41 4 my 70701 (015) (07 2551	10. Field and Pool, or Exploratory Area
4 Location of Well (Footage, Sec., T., R., M., or Survey D.	Midland, TX 79701 (915) 687-3551	Wildcat
Sociation of Well it colared seen the Re. 1911, of abivery D	escription	11. County or Parish, State
2180' FNL and 660' FEL, Sec.	15 T-165 R-28F	The County of Parish, Base
2100 THE date ood THE, bec.	15, 1 105, K-20E	Eddy: Co. NM
		Eddy Co., NM
CHECK APPROPRIATE BOX(	s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
Tale .	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing  XX Other Request SI status	Conversion to Injection Dispose Water

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 Lhereby certify that the foregoing is true and correct Signed My Cul Out	Title _	Sr. Production Clerk	. Date .	April 14, 1993
(This space for Federal or State office use) Approved by (ORIG. SGD.) JOE G. LARA	Title	OFTROLFIJM ENGINEER	Date	APR 28 1993
Conditions of approval, if any:				

Form 3160-5 IINITED	STATES	SUBMIT IN TRIPLICATE.	Form approved. Budget Bureau No. 1004-0135
(November 1983) (Formerly 9–331)  DEPARTMENT OF BUREAU OF LAN	THE INTERIOR	( O a b 1 a a m a a b i	Expires August 31, 1985  5. LEASE DESIGNATION AND SERIAL NO.
SUNDRY NOTICES AN  (Do not use this form for proposals to drill to use "APPLICATION FOR F	ID REPORTS ON	WELLS to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL X CAS OTHER	93 FEH H AM	10 04 11 11 2 (393	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR		O. C. B.	S. FARM OR LEASE NAME
SANTA FE ENERGY OPERATING PARTN 3. ADDRESS OF OPERATOR	ERS, L.P.		Crowflats 15 Federal 9. WBLL NO.
P. O. Box 2327 Carlsbad, New :  Location of Well (Report location clearly and in See also space 17 below.) At surface	Mexico 88221-2 accordance with any State	327 505-887-0821 e requirements.*	10. FIELD AND POOL, OR WILDCAT
2180' FNL & 660'	ומוכז		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
2180 FNL & 660	t T L		Sec 15 T16S R28E
14. PERMIT NO. 15. ELEVAT	IONS (Show whether DF, RT,	GR, etc.)	12. COUNTY OR PARISH 13. STATE
		()1 5	Eddy   NM
<u> </u>	Box to Indicate Natu	re of Notice, Report, or C	Other Data DENT EXPORT OF:
NOTICE OF INTENTION TO:	ZD CLEVO		
TEST WATER SHUT-OFF PULL OR ALTE FRACTURE TREAT MULTIPLE CO.		WATER SHUT-OFF FRACTURE TREATMENT	BEPAIRING WELL  ALTERING CASING
SHOOT OR ACIDIZE ABANDON*		SBOOTING OR ACIDIZING	ABANDON MENT*
REPAIR WELL CHANGE PLAN	· <del></del> i	(Other)	
(Other) Casing integrity tes  17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Cle proposed work. If well is directionally drilled.		Completion or Recomp	of multiple completion on Well letion Report and Log form.)
<ol> <li>Tested for mechanical</li> <li>Pressure annulus to 50</li> </ol>			SUPERIOR LAND MANAGER
3. Test for 30 minutes pe	r BLM guideline:	5	1 MULLINED
4. See attached chart.	g		JAN 19 1993
			Shad, New Mexico
18. I hereby certify that the foregoing is true and co	rrect		
SIGNED P.L. Fete Stull		Superintendent	DATE January 12, 1993
(This space for Federal or State office use)			
APPROVED BY	TITLE		DATE

(November 1983) (1c merly 9-330)	L CONS. COM	MUSSIONED	STAT	TES	SUBM	IT IN	DUPLICA	TE.	rom a Budge Expire	t Bure	ed. au No. 1004-0137 ust 31, 1985
Drawe	PEPART	MENT O	F THE	EIN	TERIOR	₹ ,,	DIA1 <b>9</b> 100	other in- Lions on Se side)			ON AND SERIAL NO.
మున్త శివ -	BUR	EAU OF LAI	ND MANÁ	GEME	NULS ELV		Divioia		NM-73.7	766	
·	MPLETION			ON F	REPORT		9.L91	G *	6. IF INDIAN	, ALLOT	TEE OR TRIBB NAME
Is. TYPE OF WEL	L: OIL WELL	GAS WELL	XX		Haner Zn	TIII	10 50		7. UNIT AUR	EEMENT	NAME
b. TYPE OF COM	PLETION: DEEP	· [PTEG [	DIFF	. —		KEÇ	IVED	_			
well LX	OVER L EN	nack l	LESV	n. 🔲	Other	1 <del>0</del> 1	1 100		S. PARM OR		
2. NAME OF OPERA	oyle & Stova	al C 7	t Fold	1	1447	71 <b>\</b>	T 133		CION 1 18		'15" Fed Com
3. ADDRESS OF UPE	RATOR	- and	11100	nesar	)	O, (	S. D			1	
	1240, Graha				71K:	ESIM	, OFFICE		10. FIELD A	ND POOL	OR WILDCAT
4. LOCATION OF WE	•	elcarly and in					te)*	-		R., M., C	OR BLOCK AND SURVEY
At top prod. in	terval reported belo	× 2180'	FNL &	660' 1	FEL				OR AREA		
At total depth	2180' FNL	& 660' FE	.L						Sec. 15	, T-I	l <b>6</b> −S, R−28−E
	2100			RMIT NO.		DATE	ISSUED		12. COUNTY		13. STATE
	-								_Eddy	•	N.M
15. DATE SPUBDED	16. DATE T.D. RE	1		_					GE, ETC.)*	19.	LEV. CASINGHEAD
10/20/90 20. TOTAL PEFTH, MD	11/18/9	BACK T.D., MD &		5/91	TIPLE COMPL		' GR	3601'	ROTARY TO	1.8	NA CABLE TOOLS
9.700	. 1	940' (CIBF	1	HOW M		••		LLED BY	All	1	
24. PRODUCING INTE				NAME (N	(D AND TVD)	•	<del></del>	<del>-&gt;</del> !		25	. WAS DIRECTIONAL
1856! ~	1874' Premi	er Sand							•		NO
26. TYPE ELECTRIC										27. W	AS WELL CORED
DLL-MG, SI	FT SD-DSNL		_								No
28.					ort all string	e act					
CASING SIZE	WEIGHT, LB./F				LE SIZE	-		IENTING R	ECORD		AMOUNT PULLED
<u>13-3/8</u> 8-5/8	48		358 000	<u>1</u>	$\frac{7}{1}$ 1/2	-	_350 s 130 s		<del></del>		None
0-2/0	- - <del></del>		700			-	,170 S	acks			None
	-					-			<del></del>		
29.	Ĺ	INER RECORD	>				30.	T	BING REC	ORD	
BIZE	TOP (MD)	BOTTOM (MD)	SACKS CE	MENT*	SCREEN (M	10)	SIZE		EPTH BET ()	(D)	PACKER BET (MD)
	·		-	[			2-3/	<del>B</del>	1815.32		1809.57
31. PERFORATION REC	corp (Interval, size	and number)	<u> </u>	!	32.		ID SHOT	PRACTI	RE, CEMEN	T SOU	EFZE ETC
·	•				DEPTH IN			1			KATERIAL USED
1856' - 18	874' (36 ho]	les) (0.5'	' dia)		1856	- 18	74	250 0	allons	10%	Acetic Acid
									•		101 Acid
								ļ			
33.*				ppor	OUCTION		<del></del>	1	<del></del>		
DATE FIRST PRODUCT	ION PRODUC	TION METHOD (	Flowing, go			and t	ppe of pur	np)			B (Producing or
NA	( F	lowina								u-in) hut-i	in
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N		OIL-BBL.		GAS-M	Cr.	WATER-BB		GAS-OIL RATIO
2/14/91	24	1/2"		<del>&gt;</del>	-0-		510		-0-		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RAT	OILE	BI	GAS-	-MCF.	1	WATER	HBL.	OILG	RAVITY-API (CORE.)
65 34. pisposition of g	PKI. AS (Sold, used for f	uel, vented, etc.	) <u> </u>			510	}	<u>-C</u>	- TEST WITNE	SSED B	
To be sold	d. Presenti			pelin	e connec	ctio	n		Bennett	-Catl	<u>зеу од 11-17-а</u>
			_1.2.		. 1						S35
DST report  36. 1 bereby certify	that the foregoing	est, devi	ATION :	SUIVE	y, Logs.	rect a	s determin	ed from \a	ll available	records	<u>6 9 mar</u>
SIGNED	mus fil	Buc	ELV TIT		Aaent (	(27	sl. 51	ngs)	DAT	**1.53	n (
-	*(500	Instructions a	nd Space	s for A	dditional	Data	on Reve	rse Side		10 1 10 7	No State Open Commence on

Fitle 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.

51

		TRUE VERT. DEPTH	416' 1123' 1908' 3360' 4618' 5362' 6768' 7692' 8651' 9066' 9314'	<b>3</b>
GEOLOGIC MARKERS	TOP	MEAS, DEPTH VE	4161 11231 19081 33601 46181 53621 67681 76921 80741 90661	
38. GEOL(		NAME	Yates Queen San Andres Glorieta Tubb Abo Wolfcamp Cisco Canyon Strawn Atoka Morrow	
drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and 3 recoveries):	DESCRIPTION, CONTENTS, ETC.		DST No. 1 (Conventional Test) Recovered 60' of drilling mud. Sample Chamber recovered 2600 cc drilling mud. 30 psig. See attached for further information.	
erval tested, cu	воттом		6641'	
luding depth int	TOP		6521'	
recoveries):	FORMATION		Lower (Abo)	

	R Beerra	, Boyle & Stoval	1 c/o O'Briant P. O. Box	Engineering 10487 Midlan	d, TX 79702
LLLH	G CONTRA	CTUR Exeter	Drilling Compan		
the c	drillina	contractor	who drilled	the above-de	authorized represenseribed well and thatowing results:
	Degrees	e vepth	Degrees	8 Depth	Degrees & Depth
	1°	3581	3/4°	7,922'	
•	3/4°	450 <u>'</u>	1°	8,736'	
:	± 1/4°	937'	1 1/4°	9,347'	
	1°	1,411'	1°	9,700'	
	1/4°	2,000'		•	<u> </u>
	1.0	2,501'			
	3/4°	2,995'	· · · · · · · · · · · · · · · · · · ·		
	1/4°	3,527'	·		
	3/49	4,002'			<del></del>
	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'			**************************************
	1 1/4°	6,825'		y Contractor	Exeter Drilling

#### 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 psiq

INITIAL FLOW:

19 - 19 psig

16 - 16 psig (30 minutes)

INITIAL SHUT-IN:

167 psiq

101 psiq (60 minutes)

FINAL FLOW:

41 - 41 psiq

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.

BAKER SERVICE TOOLS

# DRILL STEM TESTING OPERATION REPORT

# ILLEGIBLE.

Number CROW F		201				Tot.	Porosity
	IATS #	5 Federa	of Comm		ST No. #	Net Fi	
Exette Delq.		Top Choka	Bottom	Choke SA			
14-01	***************************************		Dite ()	At Hole	Shut-in No. 1_		
PO'ENL 660	FEL	Casing Size & W	897	10+10 2000			
		Sixe & Wt. D. P.	or Tubing	412 16,40	Shut-in No. 2 ,	V	
	·	Size Wt. Pipe			Flow No. 3		
<u> </u>		I. D. of D. C.	14"		Shut-in No. 3		
HCAT		Length of D. C. s	bove Tool 749		Bottom Hole T	emp. //46	
dy		Total Depth	641		Mud Weight	9./	
w Mexico		interval Tested	6521-66	41	Gravity		
on 360/		Interval Parforate	d-		Viscosity3		
80	· · · · · · · · · · · · · · · · · · ·	Type of Test CE	nuention	Ahr	Tool Opened s	6iga Ail	12
Run Prior to Test: Yes	No P		<b>F</b> n	tom of Top Packer	6513	7	
le Size & Top Pkr.		n Richard	1	tiom of Second Packs	1500		
	In			non of Straddle Packers		177	
	in		1	p of Fourth Packer			
	in			ngth of Test Interval			
w, during which flow or shi				st Interval: Anchor		Collete 74	D#
MONI		(中)的"在面面() 查察[(数数]	ł	iow Straddle; Anchor		Collers	DP
	OLE SAMPLER			se tool plugged?		/as anchor plugged?.	
ampler:	<del></del>	30	i i	straddie pkr. hold?			
of Sampler:		160	Paid Dis	MARKS:		1488. DEIGW BITEUDIE	<u> </u>
of Sample:		2601		MADNE:		FAC \$ 915-1	125-416-
ample drained? Ring A	-1		-L 00.	Test Re	N FOR	174 174	-1.1
		260	2 cc	P.O. B	ule + S ex 1240 o Texas	TODY6	
<b>33240</b>	PPM Tite	260	2 cc	P.O. B	ex 1240		
	PPM Tite Gas/Oil Patio	260 Q 0	2 cc	P.O. B	ex 1240		
	Gas/Oil Ratio@	260 Q 0	20 cc	P.O. B	ex 1240 o Texas	76046	Under Stredgle
ter R. W.: 34, 760  3 No. 18069	Gas/Oil Ratio <u>C</u> PIM  Clock	260 0 0	2 cc	COTGOT NO.	ex 1240	76046	Under Stredgle
0   0   0   0   0   0   0   0   0   0	Gas/Oil Ratio <u>C</u> PIM  Clock	7yp. K-3 Cap. K850	C cc.	Clock	Type	7 <i>GDYG</i>	Under Stredgle
0 et R. W.: 34, 760 3 No. 18069 50 Loc. 6498	Plm   Clock   No. 36687	7yp. K-3 Cap. K850	C cc.	Clock	Type	7 <i>GDYG</i> Ran	Under Stredgle Glock No.
0 et R. W.: 34, 260 3 No. 1864 50 Loo. 64997	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	7ype K-3 Cap. 1850 Inside 6574	Co.	Clock No. 28/87 Hrs. Ys	Type	76046 Ran No. Loc. Outside	Under Streddle — Cloak — No. — Hrk,
0 et R. W.: 34, 260  3 No. 1804 50 Loo. 6499  Coutside Field	Plm   Clock   No. 36687	Type K-3 Cap. Ke50 Inside 6574	Cc. Co cc. Co ft.  Re  No. (1077 Loc. 57/ Coulside Field	cordet No.	Type	76046  Ran  No. Loc.	Under Streddie Glook No
0 et R. W.: 34 760  No. 1669  So Loc. 4499  Outside Field  A 3012	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	Type K-3 Cap. Y050 Inside 6574	Cc. Co cc. Co fi.  No. 11077 Loc. Couteide	Clock No. 28/87 Hrs. Ys	TypeCapInsideIM	76046 Ran No. Loc. Outside	Under Streddie Glook No
O et R. W.: 34 760  Sie R. W.: 34 760  No. 1604  Loc. 4478'  Outside  Field  A 30/2  K 30/2	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	Type K-3 Cap. YRSO Inside STK	CC. CO oc. CU ft,  Ae  No. 1077  Loc. 57/  Outside 4  Fista 2 9 7 3	Clock No. 28/87 Hrs. Ys	TypeCapinsideIH	76046 Ran No. Loc. Outside	Under Streddie Glook No
O et R. W.: 34 760  3 No. 1669  50 Loc. 4479  Coulside Field  A 3012  K 30/2  B 17	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	Type K-3 Cap. V850 Inside 556 Press. IH FH	Cc. Co cc. Co ft.  No. 11077  Loc. 57/4  Outside 40  Pistd 2973  2973	Clock No. 28/87 Hrs. Ys	TypeCapinsideIHFHIF-1	76046 Ran No. Loc. Outside	Under Streddie Glook No
O et R. W.: 34, 760  3 No. 1669  50 Loo. 44997  4 Outside  Field  A 30/2  K 30/2  B / 9  C / 7	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	Type 2-3 Cap. 1950 Inside 574  Frees. IH FH IF-1 FF-1	Cc. Co cc. Co ft.  No. 11077  Loc. 57/  Loc. 57/  Outside 57/ 2973	Clock No. 28/87 Hrs. Ys	TypeCapInsideIMFHFF-1	76046 Ran No. Loc. Outside	Under Streddle — Cloak — No. — Hrk,
O et R. W.: 34 760  3 No. 1669  50 Loc. 4479  Coulside Field  A 3012  K 30/2  B 17	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	7ype K-3 Cap. Y850 Inside 6574  Frees. IH EH IF-1 FF-1	Cc. Coc. Country  No. 11077  Loc. Fisid 2973 2973	Clock No. 28/87 Hrs. Ys	TypeCapinside	76046 Ran No. Loc. Outside	Under Streddle — Cloak — No. — Hrk,
O	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	Type K-3 Cap. 1850 Inside 6574  Press. IH FH IF-1 FF-1 FF-2	Cc. Co cc. Co ft.  No. 11077  Loc. 57/  Loc. 57/  Outside 57/ 2973	Clock No. 28/87 Hrs. Ys	Type	76046 Ran No. Loc. Outside	Under Stredgle — Cloak — No. — Hré.
O et R. W.: 34, 760  3 No. 1669  50 Loo. 4499  4 Outside  Fietd  A 30/2  K 30/2  B / 9  C / 9  E 4/	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	Type K-3 Cap. 1850 Inside 6574  Press. IM FH IF-1 FF-1 FF-2 IF-3	Cc. Coc. Country  No. 11077  Loc. Fisid 2973 2973	Clock No. 28/87 Hrs. Ys	Type	76046 Ran No. Loc. Outside	Under Streddle — Cloak — No. — Hrk,
O	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	Type K-3 Cap. 1850 Inside 5544  Press. IH FH IF-1 FF-1 IF-2 IF-3 FF-3	Cc. Co cc. Co ft.  Ac. No. (1077 Loc. 57/ Coulaida 42  Fisia 2973 2973	Clock No. 28/87 Hrs. Ys	Type	76046 Ran No. Loc. Outside	Under Streddle — Cloak — No. — Hrk,
Ole R. W.: 34, 760  3 No. 1664  50 Loc. 4479  4 Outside  Field  A 3012  K 3012  C 17  E 41  H 1  D 167	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	Type K-3 Cap. 1850 Inside 554  Press. IH EH IF-1 FF-3 FF-3 FF-3 81F-1	D cc. Co cc. Co fi.  Ae  No. 11077  Loo. 57/  Couleide 1273  2973  16  16  34	Clock No. 28/87 Hrs. Ys	Type	76046 Ran No. Loc. Outside	Under Streddle — Cloak — No. — Hrk,
O lier R. W.: 34 760  Solve R. W.: 34 760  Solve R. W.: 34 760  Outside R. W.: 30/2  B / 9  C / 9  E / 7  H / 1	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	Type 2-3 Cap. 1950 Inside 557  Frees. IH FF.1 FF.1 FF.2 FF.2 IF.3 FF.3 SIP.1	Cc. Co cc. Co ft.  Ac. No. (1077 Loc. 57/ Coulaida 42  Fisia 2973 2973	Clock No. 28/87 Hrs. Ys	Type	76046 Ran No. Loc. Outside	Under Stredgle Glock No.
Opie R. W.: 34, 760  3 No. 1664  950 Loc. 4479  Coutside  Fietd  A 3012  K 3012  E 41  F 41  H 1  D 167	Gas/Oil Ratio <u>C</u> PIM  Clock  No. 36687  Hrs. 34	Type 2-3 Cap. 1950 Inside 572  Press. IH FF.1 IF-1 FF.2 FF.2 IF-3 FF.3 BIP-1 \$IP-2	D cc. Co cc. Co fi.  Ae  No. 11077  Loo. 57/  Couleide 1273  2973  16  16  34	Clock No. 28/87 Hrs: Ys	Type	76046 Ran No. Loc. Outside	Under Stredgle — Glock No. Hrs. — Correcter

1 B/	AKER BERVIO	E TOOLS				TESTING REPORT
Hetriot	Hebbs	New M	terica		Date _	1/04/90 18 90 Field Ticket 25%-776/2
37_E	veter	PRILLING.	Compan			Rayles Stouth
24			INX # L		1	dland, Texas 79701
		EASUREMENTS		DATE	TIME	SEQUENCE OPERATIONS
ed wit				11/5		on becation + carw P.O.H.
<b>H</b> #1 11		·	· · · · · · · · · · · · · · · · · · ·	11/6	2400	out of the hole + unloady make
Well to	eter				-	Test Tools FOR OST "
atle	·····			<del></del>	0230	TIH to Buttern of casing
ipe	alab. mb alad a					WAIT TO RUN IN TOPE
4	d with chokes				0400	T-, Nish 1/1
120		Oz.			0530	Tool exercised with week Blow & Stoned
	pe-PSI PSI	CHOKE	MCF/D		0602	
ME	F 5!	CHONE	MOFILE		0632	Stone the aughor Flow to Rindfhately skin Buck
	<del></del>			<del></del>	10785	good Tool For 2 th Blow ore ved with No Blow
	<u> </u>		<del> </del>			+ Remained dead Throughout The Flow period
	+				10020	ShuT in For Final ShuT in
	<u> </u>			<del></del>	1034	Rio down sucrece enviolent + PON
- 04	Raw F	OR	<del> </del>		1500	out of the + Break down + boad out Tost
<u> </u>						Tools
Be	His Box	10 + 5+	ovall			
	P.O. P.	1240				
7			604%			
						ILLEGIBLE =
						'LLEGIBLE
					<u> </u>	
					<u> </u>	
		-				
					J	

Ft. Consisting of: Daille no L Total Fluid Repovered Ft, of Gue Recovered in Drill Pipe Test was was notherers elequisted? WES NET Top Sample B.W. \_\_ Middle Sample R.W. Bottom Sample R.W. REBERVOIR ANALYBIST NO T TEDHNICIAN WELL OWNERS REPRESENTATIVE (Please Print Legibly) Ion Smith + Albert BRYAN MMOO # 88T-20-18 (4/87) AAMIL IN ALBEN DISTRICT COPY: (2) PINK, CUSTOMER COPY; (4) GOLD, HOUSTON COPY

\*See Instructions on Reverse Side

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

SJS

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. 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.

<sub>-</sub>/25/91:

at 1:45 PM FTP 365 psig.

## Submit 5 Corres Appropriate District Office DISTRICT 1 P.O. Box 1980, Hobbs NM 88240 State of New Mexico

Energy, Minerals and Natural Resources Department

RECEIVED Form C-104
RECEIVED Revised 1-1-89 See Instructions

MAR - 4 1991 ottom of Page

A DIVISION OIL CONSERVATION DIVISION

P.O. Box 2088

O. C. D. ARTESIA, OFFICE

DISTRICT II REC.
P.O. Drawer DD, Anenia, NM 88210 DISTRICT III , DI AMERINA ATALO

Santa Fe, New Mexico 87504-2088

U Kio Brazos Kur Absec. NM 8/410					ITHORIZA IRAL GAS	TION			
Santa Fe Energy Ope						Well API	No.		
Idress				······································				<del></del>	
nange in Operator		nge in Transpo	orter of:		(Please explain) f Operato		ctive Fe	eb. 26,	1991
hange of operator give name Laddress of previous operator Bet	tis, Boy	le & St	ovall, E	Р. О. Во	x 1240,	Graham,	TX 7604	16	
DESCRIPTION OF WELL AN ease Name Crow Flats 15 Fed Com	We	I No. Pool N	Vame, Including			Kind of	lease deral of Fee	Leas NM-717	e No.
ocation		<u></u>	HITACAL	TIOTTOW				1222 / 2/	
Unit Letter H	: 2180	Feet F	rom The <u>No</u>	orth Line	and 660	O Feet	From The	East	Line
Section 15 Township	16S	Range	28E	, NM	IPM,	Edd	Y		County
II. DESIGNATION OF TRANS	PORTER	OF OIL AI	ND NATUR	RAL GAS					
lame of Authorized Transporter of Oil		Condensate			address to whi	ch approved c	opy of this for	m is to be sent	)
Name of Authorized Transporter of Casingly	read Gas [	or Dr	y Gas 🗀	Address (Give	e address to whi	ch approved c	opy of this for	m is to be sen	)
If well produces oil or liquids, ive location of tanks.	Unit Se	sc. Twp.	Rge.	ls gas actually	connected?	When 7	)		
this production is commingled with that for V. COMPLETION DATA	rom any other	lease or pool, 1	give commingl	ing order numb	жг				
Designate Type of Completion -	- (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded		Ready to Prod	L,	Total Depth	I	l.,l	P.B.T.D.	L	L
Elevations (DF, RKB, RT, GR, etc.)	Name of Proc	ducing Formati	ion	Top OiVGas	Pay		Tubing Dept	h	
Perforations							Depth Casin	g Shoe	
				<del></del>	NG RECOR	D			
HOLE SIZE	CASI	NG & TUBIN	G SIZE	<del> </del>	DEPTH SET	<del></del>		SACKS CEMI	NT
								· · · · · · · · · · · · · · · · · · ·	
	<del> </del>		<del></del>	-			<del> </del>	·	·
V. TEST DATA AND REQUE				. <del> </del>			<del>.l</del>	<del></del>	
OIL WELL (Test must be after to Date First New Oil Run To Tank	Due of Test		oad oil and mu		or exceed top all Method (Flow, p			for full 24 hou	73.)
Length of Test	Tubing Pres	sure		Casing Pres	sure		Choke Size		
Actual Prod. During Test	Oil - Bbls			Water - Bb	is.	<del></del>	Gas- MCF		······································
GAS WELL	_1			_1			_l		<del></del>
Actual Prod. Test - MCF/D	Length of 1	[ला	<del> </del>	Bbls. Cond	enule/MMCF	<del></del>	Gravity of	Condensue	
Testing Method (pitot, back pr.)	Tubing Pre	saire (Shut-in)	<u> </u>	Casing Pre	swre (Shut-in)		Choke Su	e	
VI. OPERATOR CERTIFIC	CATE OF	COMPL	IANCE			NCCD		DIVIO	ON!
I hereby certify that the rules and reg Division have been complied with an is true and complete to the best of m	ed that the info	mation given			OIL CO		MAR,	6-1981	N
Derni Mcl	ullo	ugh	/ 	Da	ite Approv	ed	MAN,	V 1001	<del></del>
Signature Terry McCullough,	Sr. Pro			Ву		ad M	win.		
Printed Name Feb. 26, 1991	015	T 1607_255	itle 1	Tit	le <b>3</b>	PERVISO	R. DISTI	RICT II	

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

Date

- 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.

Telephone No.

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.

Form 31605 (November 1983) (Formerly 9-331)	UNITED STATES DEPARTMENT OF THE INT BUREAU OF LAND MANAGE		Form approved. Budget Bureau No. 1004-0138 5 Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO. NM-71766
(Do not use this fo	ORY NOTICES AND REPOR	plug back to a different reservoir.	8. IF INDIAN, ALLOTTRE OR TRIBE NAME.
OIL GAS WELL WELL	TX OTHER	31 1 0 0 1	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR			8. FARM OR LEASE NAME Crow Flats "15" Fed Col
Bettis, Boyle &	Stovall /		8. WELL NO.
P. O. Box 1240,	· · · · · · · · · · · · · · · · · · ·		1
4. LOCATION OF WELL (Re See also space 17 below At surface	port location clearly and in accordance wit )	th any State requirements.*	Wildcat  11. SEC. T. B., M., OR BLE. AND
21901 FM & 64	60' FEL of Sec. 15		Sec. 15, T-15-S, R-28-E
14. PERMIT NO.	15 ELEVATIONS (Show whe 3576.9'		12. COUNTY OR PARISH 13. STATE Eddy N.M.
16.	Check Appropriate Box To India	ate Nature of Notice, Report, or C	Other Data
No.	OTICE OF INTENTION TO:	subsequ	ENT REPORT OF;
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS	WATER SHET-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other)	BEPAIRING WELL  ALTERING CASING  ABANDONMENT*  of multiple completion on Well
proposed work. If nent to this work.)*	COMPLETED OPERATIONS (Clearly state all powell is directionally drilled, give subsurfac	e locations and measured and true vertica	l depths for all markers and zones perti-
2. Perf 3. Acid 4. Swal 5. Frac 6. Flow 7. Shut	e-in and rig up completion equipmoratefrom 1,856-1,874' KB. ize as required. o/flow to clean-up and test. ture treat as with volumes/rates a to clean-up and testin well for pressure build-up. all surface equipment as required.		Dec 13  CARCA AREA
	potential test.	RECEIVED	II 10 A
		DEC 31 '90	
		O. C. D. ARTESIA, OFFICE	57H. <b>C</b>
18. I hereby certify that t	be foregoing is true and correct	agent	DATE 12/11/90
(This space for Federa APPROVED BY CONDITIONS OF APP	TITLE		DATE 122496

Farm 3160-5 (November 1983) (Formerly 9-331)	BUR	EAU OF LAND		OR verse side)	TRIPLICATE* uctions on re-	Form ap Budget I Expires 5. LEASE DESIGNM-71 6. IF INDIAN.	Burcau No. August 31.  GNATION AND	SERIAL NO
(Do not use th	is form for pro Use "APPL	posals to drill or t ICATION FOR PER	o deepen or plug bi	ack to a different reoposals.)	Bernold.			
OIL GAS	XX other	1				7. UNIT AGREE	MENT NAME	
2. NAME OF OPERATOR	Boyle &					8. FARM OR LE Crow F1:		Fed Com
P. O. Bo		Graham, Texa	as 76046			9. WELL NO.	1	
4. LOCATION OF WELL See also space 17 b At surface	elow.)	n clearly and in ac		State requirements.*		Wildca 11. SEC., T., E., SURVEY	t , M., OR BLK. A OR AREA	
2100 II	VL · α ΟΟΟ		s (Show whether DF,	RT, GR, etc.)		12. COUNTY OF	<u> </u>	<u></u>
			3576.9' G	R		Eddy		N.M.
16.	Check		x To Indicate N	ature of Notice,		Other Data	:	
TEST WATER SHUT FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) 17. DESCRIBE PROPOSED proposed work.	OR COMPLETED	PULL OR ALTER O MULTIPLE COMPL ABANDON* CHANGE PLANS OPERATIONS (Clearly ectionally drilled, gi	State all pertinent	(Nort: Comple	ACIDIZING BILY Drill Report results tion or Recomple	ALT  ABA  ing & Plug  of multiple cometion Report and	pletion on William (1) Log form.)	XX
nent to this work	.,• . TD 9700'	. Present o	operation:	Trip. Ran D test log fro	DLL-MC-FDL	-DSN-GR 1		
11/21/90:	Plug No. Plug No. Plug No.	1 at 9400 2 at 8650 3 at 7700 4 at 6750	'with 60 sac 'with 30 sac 'with 30 sac 'with 30 sac	Plugging bac ks Premium l ks Premium l ks Premium l ks Premium l ks Premium l	Plus Nedt Plus Neat Plus Neat Plus Neat		ft/sk yi	ield, 14.8#)
11/22/90:	Plug No.	lugging bac 6 at 2050 of cement a	'with 50 sac	cks Premium, RECEV	Plus Neat		CARLS AREA HEAD	: <u>E</u>
	Presentl	y waiting o	n completior	DEC 3	0°, J		2.50	
				- 6	C. D. A. OFFICE		30 E	<u> </u>

APPROVED BY \_\_\_\_\_\_\_CONDITIONS OF APPROVAL, IF ANY: DATE

TITLE

TITLE \_

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

(This space for Federal or State office use)

	RTMENT OF THE INTER		5. LEASE DESIGNATION AND SERIAL NO
SUNDRY N	OTICES AND REPORTS roposals to drill or to deepen or plus LICATION FOR PERMIT—" for such	ON WELLS	NM-3 1766  6 FINDIAN, ALLOTTEE OR TRIBE NAME
OIL GAS WELL OTHE	NEC	12 11 14 All '90 AN 1	S TUNE ABREEMENT NAME
2. NAME OF OPERATOR Bettis, Boyle & Stoval	1 CAF	RU EA location ERS	8. FARM OR LEASE NAME Crow Flats "15" Fed Com
3. ADDRESS OF OPERATOR P. O. Box 1240, Graham	, Texas 76046		9. WELL NO.
	ion clearly and in accordance with an	ny State requirements.*	Wildcat  11. SEC., T., B., M., OR BLK. AND
2180' FNL & 660' FEL o	of Sec. 15		Sec. 15, T-15-S, R-28-E
14. PERMIT NO.	15. ELEVATIONS (Show whether 3576.5	•	12. COUNTY OR PARISH 13. STATE Eddy N.M.
	Appropriate Box To Indicate		
NOTICE OF 1	NTENTION TO:	WATER SHICT-OFF	UBSEQUENT REPORT OF :  REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	<u>  </u>
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZIN	
(Other)	CHANGE PLANS	(Note: Report	results of multiple completion on Well ecompletion Report and Log form.)
Wolfcamp (6750') or	is to AMEND the origin Strawn (8640') comple ed to a total depth of	etion to a Premier	Sand completion.
<b>2</b>			
		Fig.	RECEIVED
		!	DEC 31 '90
			O. C. D. ARTESIA, OFFICE
			•
SIGNED CERTIFY that the foregoli	ng is true and correct	agent	DATE DEC. 10, 1990
(This space for Federal or State	office use)		DATE 12 24 96
CONDITIONS OF APPROVAL, I			

\*See Instructions on Reverse Side

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Ν.	weaher 1983)
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## UNITED STATES DEPARTMENT OF THE INTERIOR SUBMIT IN TRIPLICATE\* Other Instructions on reverse side:

Four approved.	
Budget Bureau No.	1004-
Expires August 31,	1985
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	Expires	August	31.	1985
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Exp	ires August	1985
LEASE	DESIGNATION	

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BUREAU OF LAND MANAGEMENT		_  NM-71766	
SUNDRY NOTICES AND REPORTS O	N WELLE TO THE CONTROL OF THE CONTRO	G IF INDIAN, ALLOTTEE	OR, TRIBE SAND
WELL GAS WELL WELL YOUTHER 'SO DEC 14	AM 9 20tc 5'90	7. UNIT AGBREMENT NA	ME
2. SAME OF OPERATOR Bettis, Boyle & Stovall		8. FARM OR LEASE NAM Crow Flats	
P.O. Box 1240, Graham, Texas 76046	O. C. D.  ARTESIA, OFFICE	9. WELL NO.	
4. LOATION OF WELL (Report location clearly and in accordance with any S See also space 17 below.) At surface	tate requirements.*	Wildcat	WILDCAT
		11. SEC., T., B., M., OR B SURVEY OR ABEA	LE. AND
2180' FNL & 660' FEL OF Sec. 15		Sec. 15, I-1	16-S,R-28-I
14. PERMIT SO. 15 ELEVATIONS (Show whether DE. 3576.9' GR	RT, GR. etc.)	12. COUNTY OR PARISH	N.M.
Check Appropriate Box To Indicate No.	ature of Notice, Report, or	Other Data	
NOTICE OF INTENTION TO:	SUBSEC	QUENT REPORT OF:	
TEST WATER SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING V	FELL
FRACTURE TREAT MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CA	ISING
SHOOT OR ACIDIZE ABANDON*	SHOOTING OR ACIDIZING	ABANDONMEN	<del></del>
CHANGE PLANS (Other)		s of multiple completion	
7 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly State all pertinent proposed work. If well is directionally drilled, give subsurface locationent to this work.)*	details, and give pertinent date	pletion Report and Log for s. including estimated dat cal depths for all markers	e of starting acv
<ul> <li>3/90: Drilling at 5770', made 560' in 21 hours. Formal and shale. Deviaiton survey at 5280' misrun, at 524/90: Drilling at 6288', made 518' in 221/2 hours, for sand. Deviation survey at 5785' 3/4°.</li> <li>5/90: Drilling at 6570', made 282' in 151/2 hours, Deviation survey at 6420' 11/2°.</li> <li>6/90: Present depth 6640', made 70' in 21/2 hours. Formal and shale.</li> </ul>	314' 1/4º. mation dolomite and formation dolomite.		
sand. Present operation: Waiting on daylight a 6521' to 6640', Base of the Abo. Copy of DST repo	run DST No. 1 from	}∙s	
7/90: Drilling at 6745', made 105' in 6 hours. Formation 8/90: Drilling at 7080', made 335' in 22 1/2 hours. For	on dolomite.	Ţ.	हैं ज
lime. Deviation survey at 6825' 1 1/4°.  9/90: Drilling at 7433', made 353' in 22 1/2 hours. For lime. Deviation survey at 7331' 1 1/4°.	rmation dolomite and		OHW OHW
10/90: Drilling at 7645', made 212' in 13 1/2 hours, for lime.	rmation dolomite and		E G
11/90: Drilling at 7859', made 214' in 16 hours, formation 12/90: Drilling at 8164', made 305' in 22 1/2 hours, shale. Deviation survey at 7922' 3/4°.	on dolomite and lime. formation lime and	fic.	ති
. I hereby certify that the foregoing is true and correct			
SIGNED Chelif of Conas TITLE	agent	DATE	19/98
This space for Federal or State office use)		TORNETTE CONTROL	
APPROVED BY TITLE	Adri	DATE	
CONDITIONS OF APPROVAL, IF ANY:	i is	0.3 1990	

\*See Instructions on Reverse Side N. MORGE, HOW MEXICO

UNITED STATES November 1983) Pormerly 9-331)  BUREAU OF LAND MANAGEMENT  SUNDRY NOTICES AND REPORTS Of the form for proposals to drill or to deepen or plug but the form for proposals to drill or to deepen or plug but the form for proposals to drill or to deepen or plug but the "APPLICATION FOR PERMIT " for such proposals to drill or to deepen or plug but the "APPLICATION FOR PERMIT" or for such proposals to drill or to deepen or plug but the "APPLICATION FOR PERMIT" or for such proposals to drill or to deepen or plug but the proposals to drill or to de	ON WELLS	Budget Bureau No. 1004-4 Expires August 31, 1985  5. LEASE DESIGNATION AND BERIAL NM-71766  6 IF INDIAN, ALLOTTEE OR TRIBE DAME.
Dise "APPLICATION FOR PERMIT To Fauch Dr.  GIT. WELL XX OTHER  2. NAME OF OPERATOR  Bettis, Boyle & Stovall  3. ADDRESS OF OPERATOR  P. O. Box 1240, Graham, Texas 76046  LOCATION OF WELL (Report location clearly and in accordance with any See also space 17 below.)  At surface  2180' FNL & 660' FEL of Sec. 15	RECEIVED	7. UNIT AGREEMENT NAME  8. FARM OR LEASE NAME  COOW Flats "15" Fed Com 9. WELL NO.  1 10. FIELD AND POOL, OR WILDCAT  Wildcat  11. SEC., T., R., M., OR BLR. AND  BURVET OR AREA  Sec. 15, T-16-5, R-28-E
14. PERMIT NO. 15 ELEVATIONS (Show whether DE. 3576.91)		12. COUNTY OR PARISH 13. STATE  Eddy N.M.
NOTICE OF INTENTION TO:    PEST WATER SHUT-OFF   PULL OR ALTER CASING	water Shut-off  FRACTURE TREATMENT SHOOTING OR ACIDIZING  (Other) Weekly Dril (Note: Report results Completion or Recomp	s of multiple completion on Well sietion Report and Log form.)
<ul> <li>/13/90: Drilling at 8353', made 189' in 13 hours. Format /14/90: Drilling at 8575', made 222' in 22 hours. Format /15/90: Drilling at 8972', made 397' in 23 hours. Format Deviation survey at 8736' 1°.</li> <li>/16/90: Drilling at 9212', made 240' in 19 hours. Format /17/90: Present depth 9347', made 135' in 13 hours. Form Present operation washing to bottom. Deviation 1/4°.</li> <li>/18/90: Present depth 9600', made 253' in 21 hours. Form Present operation tripping.</li> <li>/19/90: ID 9700, made 100' in 9 1/2 hours. Formation shad operation logging. Deviation survey at 9700' 1°.</li> </ul>	tion shale and lime.  Ition shale and lime.  Ition shale and lime.  Ition shale and lime.  It survey at 9347' l  It ation shale and lime.  It and lime. Present	RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED
(This space for Federa) or State office use)	agent	

#### 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)

INITIAL HYDROSTATIC:

TOP Chart

Bottom Chart

3012 psig

2973 psiq

INITIAL FLOW:

19 - 19 psig

16 - 16 psig (30 minutes)

INITIAL SHUT-IN:

167 psiq

101 psiq (60 minutes)

FINAL FLOW:

41 - 41 psiq

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.

01L F3 5-48 [V]	Hoy 5	11 42 AM -90	7. UNIT AGREEMENT NAME
WELL A WILL LAK OTHER	As all the region of the second	COM NOE	8. FABM OR LEASE NAME
Bettis, Boyle & Stovall	CONSER CAPONI		Crow Flats "15" Fed Com
P. O. Box 1240, Graham, Texas 7664. Location of Well (Report location clearly and in account of the second of the	1460 19 State requ		10. FIELD AND POOL, OR WILDCAT
2180' FNL & 660' FEL of Sec. 15		Mai 3.80	Wildcat 11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA
2180 THE & 000 TEE OF Sec. 19		<u>~</u>	Sec. 15, T-16-S, R-28-E
14. PERMIT NO. 15 ELEVATIONS	(Show whether DF, RT, GR, etc.	O. C. OFFICE	12. COUNTY OR PARISH 13. STATE
	3576.9 GR	ARTESIA, OFFICE	Eddy NM
16. Check Appropriate Box	To Indicate Nature of	_	
NOTICE OF INTENTION TO:	1		EQUENT EMFORT OF:
<u> </u>		[	REPAIRING WELL
TEST WATER SHUT-OFF PULL OR ALTER COMPUS	!	TER SHUT-OFF	ALTERING CASING
	1 - 1	OOTING OR ACIDIZING	ABANDONMENT*
	i:		Rpt. & Int. Casing Rtp. XXX
REPAIR WELL CHANGE PLANS (Other)		Note: Report resu	olts of multiple completion on Well upletion Report and Log form.)
17 ACCOUNT DECIDED OF CAMPUETED OPERATIONS (Charles	state all pertinent details, i	and cive pertinent dat	tes, including estimated date of starting any
proposed work. If well is directionally drilled, given nent to this work.)	e subsurface locations and n	neasured and true ver	tical depths for all markers and zones perti-
10/24/90: Drilling at 1481', made 626' in		ion anhydrite. [	Deviation
survey at 937' 1 1/4°, at 1411'			
10/25/90: Present depth: 2000', made 519			
Present operation: Laying down			
10/26/90: Present depth 2000'. Present op	peration: Waiting on	cement and 1".	Deviation
survey at 2000' 1/4°.			
CASING REPORT:			
Ran 48 joints of 8 5/8" 32#/ft.		•	
Cemented with 400 sacks Hallibur			
Premium Plus with 2% CACL2. Was			
cement at 720'. Ran 1" and tago			J sacks
Halliburton neat with 2% CACL2,			
10/27/90: Drilling at 2022', made 22' in 2			7
hour cament, 3 1/2 hours WDC, 13			
cement. Pumped 130 sacks Premiu			scement to
surface. Plug down at 10:30 AM.			-
10/28/90: Drilling at 2504', made 481' in	21 hours. Formation		
10/29/90: Drilling at 3373', made 869' in surveys at 2504' 1°, at 3013' 3/	22 hours, formation /4º.	dolomite. Devia	aitoneo AGRIRECURU AR
			60V 0.81990
18. I hereby certify that the foregoing is true and correct	t /)		1-1-
signed Muy of Jonas	TITLE	ent	
(This space for Federal or State office use)			
APPROVED BY	TITLE		DATE

#### \*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.

BUREAU OF LAND MA	NAGEMENT	- m1145 D	NM-71766
SUNDRY NOTICES AND R  (Do not use this form for proposals to drill or to do  Use "APPLICATION FOR PERMI"		to a different reservoir.	6 IF INDIAN, ALLOTTRE OR TRIBE NAME
OIL GAS THER	Nov 5	11 42 AH *90	7. UNIT AGREEMENT NAME  8. FARM OR LEASE NAME
2. NAME OF OPERATOR  Bettis, Boyle & Stovall  3. ADDRESS OF OPERATOR	CARL AREA	RECEIVED	Crow Flats "15" Fed Com
P. O. Box 1240, Graham, Texas 7604  1. LOCATION OF WELL (Report location clearly and in accordance also space 17 below.) At surface		MOJ ,	Wildcat
2180' FNL & 660' FEL of Sec. 15		O. C. D ANTESHA	Sec. 15, T-16-S, R-28-E
14. PERMIT NO. 15 ELEVATIONS (S	Show whether DF, RT, 3576.9 GR		12. COUNTY OR PARISH 13. STATE Eddy NM
16. Check Appropriate Box T	o Indicate Natu		
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)  17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly St proposed work. If well is directionally drilled, give nent to this work.)	ate all pertinent de	WATER SHUT-OFF  FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) Weekly Dri (Note: Report rea Completion or Rec dails, and give pertinent da	ults of multiple completion on Well completion Report and Log form.) tes. including estimated date of starting any
10/30/90: Drilling at 3900', made 527' in 2 at 3496' misrun, at 3527' 1/4°.  10/31/90: Drilling at 4412', made 412' in 2 at 4002' 3/4°.  11/1/90: Present depth 4826', made 414' in Present operation: Trip for new 3/4°.  11-2-90: Drilling at 5210', made 384' in 1	3 hours. Form 19 hours. Fo bit. Deviatio	ation dolomite. Devi rmation dolomite and n survey at 4498' 1/2	sand. 2°, at 4826'
18. I bereby certify that the foregoing is true and correct  SIGNED	TITLE	lgeret	DATE

\*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 TWELLS  SUNDRY NOTICES AND REPORTS ON WELLS  (The net use this form for preparation of different researce).  (The net use this form for preparation of different researce).  (The net use this form for preparation of different researce).  (The net use this form for preparation of different researce).  (The net use this form for preparation of different researce).  (The net use this form for preparation of different researce).  (The net use this form for preparation of different researce).  (The net use this form for preparation of different researce).  (The net use this form for preparation of different researce).  (The net use this form for preparation of different researce).  (The net use this form for preparation of this preparation of this work).  (The net use this form for preparation for this preparation of this work).  (The net use this use this preparation this work of the use this preparation this work of the use this preparation.  (The net use this this work).  (The net use this		rm 3160-5 ovember 1983) ormerly 9-331)  DEPARTMENT OF THE INTERIOR  (Other Instruction verse slide)
THE WALLE SHIPPORT OF PROPERTY	NM-71766  G. IF INDIAN, ALLOTTRE OR TRIBE NAME	BUREAU OF LAND MANAGEMENT
Pettis, Boyle & Skoualt / 20  Bettis, Boyle & Skoualt / 20  Boyle & Boyle & Skoualt / 20  Bettis, Boyle & Skoualt / 20  Bettis	7. UNIT AGREMENT NAME	(Do not use this form for proposals to drill or to deepen or plug back to a different reserve Use "APPLICATION FOR PERMIT" for such proposals.)
Bettis, Boyle & Stabull 100 AREA HI ERS  5. Address of Orestand  5. Address of Orestand  5. Address of Orestand  6. Language of Orestand  6. Address of Orestand  6. Address of West International Control and International Control  6. Address of West International Control  7. Address of West International Control  7. C. C. D.  7. C. C. D.  7. C. C. D.  8. Court of Particles of West International Control  7. Address of West International Control  7.	TIMOF.	WELL WELL XX OTHER ON SION
3. Another or organics  P. O. Box 1240, Graphum C Texas 76046  1. December 19 belows  2180' FNL & 660' FEL of Sec. 15  10. Fills and Foot, On NULL 190  11. Sec also space 17 belows  2180' FNL & 660' FEL of Sec. 15  12. COUNTY OF FAMILY NO.  13. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  Notice or Investion to:  14. Present the formation of Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  Notice or Investion to:  15. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  Notice or Investion to:  16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  Notice or Investion to:  17. Describe the formation of Check Plans' (Charles the Facetive Texas Multi-  18. Indicate the formation of Check Plans' (Charles the Facetive Texas Multi-  19. Texas and the formation of Check Plans' (Charles the Facetive Texas Multi-  19. Texas and the formation of Check Plans' (Charles the Facetive Texas Multi-  19. Texas and the formation of Check Plans' (Charles the Facetive Texas Multi-  19. Texas and the formation of Check Plans' (Charles the Facetive Texas Multi-  19. Texas and the formation of Check Plans' (Charles the Facetive Texas Multi-  19. Texas and the formation of Check Plans' (Charles the Facetive Texas Multi-  19. Texas and the formation of Check Plans' (Charles the Facetive Texas Multi-  19. Texas and the formation of Check Plans' (Charles the Facetive Texas Multi-  19. Texas and the facetive Act of the facetive	O. T. A. C. DANCE HARL	LYER OF GIZZATOR
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2180' FNL & 660' FEL of Sec. 15  14. FERRITY NO. 15 MANATONS (Show whether OF, N. OR, ELC.) C. C. D.  14. FERRITY NO. 15 MANATONS (Show whether OF, N. OR, ELC.) C. C. D.  15. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  NOTICE OF INTERFETOR TO STATE THAT WAS A MANADON.  16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  NOTICE OF INTERFETOR TO STATE THAT WAS A MANADON.  17. INSTRUMENT SHOP OF A MANADON.  17. INSTRIBUTION OR COMPLETE COMPLETE COMPLETE COMPLETE COMPLETE THAT WAS AND AND A MANADON.  17. INSTRIBUTION OR COMPLETE	10. FIELD AND POOL, OR WILDCAT	. U. Box 1240, Graname lexas 70040
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14. FERRITY NO.  15. ELEVATIONS (Show whether or, et, os, etc.)  16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  Notice or INVENTION TO:  TEST WATER SHUF-OFF  PILL ON ALTER (ISING PRACTURE TREATMENT)  SHORT OR ACIDETE  REPORT OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  17. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  18. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  19. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  19. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  19. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  10. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  11. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  11. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  11. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  11. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  12. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  13. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  14. DUSTRIBLE UNDERSO OR CONTINUE TO PLANT (ISING PRACTURE TREATMENT)  15. DUSTRIBLE UNDERSO OR CONTINUE TO PRACTURE TREATMENT  16. DUSTRIBLE UNDERSO OR CONTINUE TO PRACTURE TREATMENT  16. DUSTRIBLE UNDERSO OR CONTINUE TO PRACTURE TREATMENT  17. DUSTRIBLE UNDERSO OR CONTINUE TO PRACTURE TREATMENT  18. DUSTRIBLE UNDERSO OR CONTINUE TO PRACTURE TREATMENT  18. DUSTRIBLE UNDERSO OR CONTINUE TO PRACTURE TREATMENT  19. DUSTRIBLE UNDERSO OR CONTINUE TO PRACTURE TREATMENT	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA	
16. Check Appropriate Box To Indicate Notice, Report, or Other Data  Notice of Intertion to:  THEST WATER SHUTTORY  PRACTURE TREAT  SHOOT OR ACIDIZE  BEFAIR WELL  CHASE PLANS  CHEEL TREATMENT  ABEAIRING WELL  ABARDONY  ABEAIRING WELL  CHASE PLANS  ABARDONY  ABEAIRING WELL  ABARDONY  ABEAIRING WELL  CHASE  CHAS		2180' FNL & 660' FEL of Sec. 15 NOV 1
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  Notice or extension to:    PRACTURE TREAT	C. D. 12. COUNTY OR PARISH 13. STATE	. PERMIT NO. 15 ELEVATIONS (Show whether DF, RT, GR, etc.)
NOTICE OF INTENTION TO:  TEST WATER SHUT-OFF PRACTURE TREAT NHOOT OR ACIDIZER ARNHON' HEPAIR WELL CHANGE PLANF HOUTOR ACIDIZER HEPAIR WELL HEPAIR WELL HEPAIR WELL CHANGE PLANF HOUTOR ACIDIZER HEPAIR OF ALL HERMONIAN HEPAIR WELL HEPAIR HOUTOR WELL ALER WELL HEPAIR HERMONIAN HEPAIR HERMONIAN HEPAIR HEPAIR WELL ALER WELL HEPAIR HEPAIR WELL ALER WELL HEPAIR HERMONIAN HEPAIR HE	F 4 L	7572 0 00
TEST WATER SHUT-OFF PRACTURE TREAT SHOOT OR ACIDEE SHOOT OR	Report, or Other Data	Check Appropriate Box To Indicate Nature of Notice, Rep
SHOUT OR ACTIOER  CHANGE PLANE  CHANGE PLANE  CHANGE PLANE  CHANGE PLANE  (Other)  17. DESCRIBE PROTUNES OR COMPLETED CPERATION. Clearly state all petitioned details, and give pertinent dates, including estimated date of star percoped work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zon nent 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. Surpling up. Deviation survey at 358' 1°.  CASING REPORT:  Ran 10 joints of 13 3/8" 488/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 mitness, Exster Drilling had notified.  10/22/90: Present depth: 358'. Present operation: Irip for plugged bit. 1 1/2 hours test BDP.  10/23/90: Drilling at 855', made 500' in 19 1/2 hours. Formation arrhydrite and salt. Deviation Survey at 450' 3/4°.  18. I bereby certify that the foregoing is true and correct  SIGNED Alluy A. Date 10/13/3/	SUBSEQUENT EMPORT OF;	NOTICE OF INTENTION TO:
BRIOCT OR ACIDIZED BEFARE WELL CHANGE PLANY	[	
(Other) Drilling Report & Surf. Csnq. Tother)  (Other) (Norz: Report results of multiple completion on Well Completion Report and Log form.)  17. INSTRUME INDIVISED ON CONFIGURATIONS International United States and performed details, and sixe performed Assets. Including settimated date of star proposed work. If well is directionally defilies, give subsurface beatines and measured and true vertical depths for all markers and zon ment to this work.)*  10/20/90: Depth 358', made 212' in 6 hours. Formation surface rock.  10/21/90: Depth 358', made 212' in 6 hours, formation surface rock.  10/21/90: Depth 358', made 212' in 6 hours, formation surface rock.  10/21/90: Depth 358', made 212' in 6 hours, formation surface rock.  10/21/90: Depth 358', made 212' in 6 hours, formation surface rock.  10/21/90: Depth 358', made 513 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°.  18. I bereby certify that the foregoing is true and correct signed.  18. I bereby certify that the foregoing is true and correct signed.  18. I bereby certify that the foregoing is true and correct signed.  18. I bereby certify that the foregoing is true and correct.  18. I bereby certify that the foregoing is true and correct.  18. I bereby certify that the foregoing is true and correct.  18. I bereby certify that the foregoing is true and correct.  18. I bereby certify that the foregoing is true and correct.		
17. DESCRIBE PROPOSED OR CONTRETED CREATIONS It Clearly state all pertinent details, and give pertinent data. Including settinated date of star proposed work. If well is directionally drilled, give subsurface locations and mensured and true vertical depths for all markers and zon nent 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.  10/21/90: Depth 358', made 212' in 6 hours, formation surface rock.  10/21/90: Depth 358', made 212' in 6 hours, formation surface rock.  10/21/90: Depth 358', made 212' in 6 hours, formation surface rock.  10/21/90: Depth 358', made 212' in 6 hours, formation surface rock.  10/21/90: Present  10/20/90. Circulated 25 sacks to 212. 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: Irip for plugged bit. 1  1/2 hours test BOP.  10/23/90: Drilling at 855', made 500' in 19 1/2 hours. Formation arrhydrite and salt. Deviation Survey at 450' 3/4°.  18. I bereby certify that the foregoing is true and correct  SIGNED Alluy That the foregoing is true and correct.  SIGNED Alluy That the foregoing is true and correct.  SIGNED Alluy That the foregoing is true and correct.		[    D-:11
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°.  18.1 bereby certify that the foregoing is true and correct  SIGNED AMAGE AND DATE 10/213/		
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".  OCT 2 01980  18. I bereby certify that the foregoing is true and correct signed. According to the foregoing is true and correct.  SIGNED Alluy S. January Title Agent DATE 10/213/	ζ.	20/90: Drilling at 142', made 142' in 3 hours. Formation surface rock. 21/90: Depth 358', made 212' in 6 hours, formation surface rock.
OCT 2 91990  18. I bereby certify that the foregoing is true and correct  SIGNED AUGUST DATE 10/213/	5:00 PM witness, it. 1	CASING REPORT: Ran 10 joints of 13 3/8" 48#/ft., H-40 casing set at 358'. Ceme with 350 sacks Class "C" with 2% CACL2. Plug down at 5:00 10/20/90. Circulated 25 sacks to pit. BLM not there to with Exeter Drilling had notified.  22/90: Present depth: 358'. Present operation: Trip for plugged bit. 1/2 hours test BOP.  23/90: Drilling at 855', made 500' in 19 1/2 hours. Formation anhydrite
OCT 2 0 1980  18. I hereby certify that the foregoing is true and correct  SIGNED CHUY S. DONES TITLE AGENT DATE 10/2/3/		salt. Deviation Survey at 450' 3/4°.
OCT 2 0 1980  18. I hereby certify that the foregoing is true and correct  SIGNED CHUY S. DONES TITLE AGENT DATE 10/2/3/		
18. I bereby certify that the foregoing is true and correct  SIGNED CHILLY S. CONON TITLE AGENT DATE 10/213/	ACORD TOWN VECORO	
18. I bereby certify that the foregoing is true and correct  SIGNED CHILLY S. DONGO TITLE AGENT DATE 10/2/3/	001 ± 01990	
18. I bereby certify that the foregoing is true and correct  SIGNED CHILLY S. DONGO TITLE AGENT DATE 10/2/3/	TRACERON MEM MENLLO	
DATE TO ALL	10/1.3/00	Alan A Como
(Add space for rederal or State omce use)	DATE / C/AD/ 70	SIGNED TO THE STATE OF THE STAT
$oldsymbol{\cdot}$		
APPROVED BY TITLE DATE CONDITIONS OF APPROVAL, IF ANY:	DATE	

Form 3160-3 (November 1983) (formerly 9-331C)	UNIT	TED STATES Dra	OIL.CONGOMENIA	RIPLICATE ections on elde)UM	- OTHER MEDICARI	u No. 1004-013
- NOW DIVISION	DEPARTMENT	OF THE INTE	FRIOK NW 88510		5. LEASE DESIGNATIO	ON AND BERIAL NO
- CON DOLLON TION	V FOR PERMIT			DACK	NM-71766 6. IF INDIAN, ALLOTS	TER OR TRIBE NAME
THE RESERVE THE PARTY OF THE PA		IO DRILL, DEEP	EN, OR PLUG	BACK		
AN DR		DEEPEN 🗆	PLUG BA		7. UNIT AGREEMENT	NAME
WELL W	RLL X OTHER		ZONE ZONE		S. FARM OR LEASE N	
2. NAME OF OPERATOR					Crow Flats	Fed Com #
Bettis, Boyle	& Stovall,		SEP 27	<del>'90</del> —	1	
P. O. Box 1246	O, Graham, Texas	3 70070 /	5-683-5311	-	10. FIELD AND POOL	OR WILDCAT
LOCATION OF WELL (R.	eport location clearly and	in accordance with any		- •	X Wildcat /	Morrour
2180' FNL & 60 At proposed prod. son		-	\rt. Tl	FFICE	11. SEC., T., R., M., O AND SURVEY OR	R BLK. AREA
	50' FEL, Section				Sec. 15, T	
	of Loco Hills	THE TOWN OR FUSI UFFI			1	
D. DISTANCE FROM PROPO	SED*	16.	NO. OF ACRES IN LEASE		Eddy OF ACRES ASSIGNED	NM
LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest dri	INE, FT.	660'	480		HIS WELL	
S. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION®		PROPOSED DEPTH	_1	RY OR CABLE TOOLS	· · · · · · · · · · · · · · · · · · ·
OR APPLIED FOR, ON TH		N.A.	9600'	1	Rotary	
1. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	3576.9' GR			22. APPROX. DATE 10-15-90	
3.		PROPOSED CASING A	ND CEMENTING PROGRA	\M		
SIZE OF HOLE	SIZE OF CABING	WEIGHT PER FOOT	SETTING DEPTH	<u>T</u>	QUANTITY OF CEN	/ENT
17 1/2"	13 3/8"	54.5	350'	325 \$	x CIRCULATE	
11"	8 5/8"	24/32	2000'		X CIRCULATE	
7 7/8"	4 1/2"	11.6/13.5	9600'	400 £	sx (see stip)	<b>S</b> )
Mud Program:	0 - 350' 350 - 2000 2000 - 7600 7600 - 9600	FW Spud mud FW (Brine) FW (Brine) Brine, gel, Starch	MW MW Drispac,	8.4 - 8.5 - 8.5 -	10.0 AREA 1	REC
OP Program:	See Exhibit "	E".			יי	
	APPROVAL SUBJECT GENERAL REQUIRE SPECIAL STIPULA ATTACHED	EMENTS AND			E RACE	D D
nne. If proposal is to reventer program, if an	PROPOSED PROGRAM: If did directions	illy, give pertinent data	plug back, give data on son subsurface locations a	present prod	d and true vertical dep	pths. Give blow
(This space for Fede	Bectis, I,	TITLE	agent		DATE O-	<u> </u>
	_					
PERMIT NO.			APPROVAL DATE			

30-015-264905

#### \*See Instructions On Reverse Side

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

DISTRICT I P.O. Box 1980, Hobbs, NM 48240

#### OIL CONSERVATION DIVISION 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., Aziac, NM 87410

## WELL LOCATION AND ACREAGE DEDICATION-PLAT All Distances must be from the outer boundaries of the section

BETTIS BOY	LE & STOVALL	Lease	Crow Flats F	ederal 15	Well No.
hait Letter H Section	15 Township	South Range	28 East	County	Eddy
ctual Foctage Location of W 2180 feet from	n the North	um 443	60	feet from the Eas	
round level Elev. 3576.9	Producing Formation MOTOU		JILDCAT		Dedicated Acresgs: 320 Acres
2. If more than one unitization, force Y yes if answer is "no" lithis form if neccess	No If an	Il by colored peacil or h outline each and identify dedicated to the well, h swer is "yes" type of co- tions which have actually	when the interest of all ownerships thereof (boson we the interest of all ownerships and the interest of all ownerships and the interest of all ownerships and the interest of all ownerships are interested in the interest	oth as to working interest ers been consolidated by a NITIZATION reverse side of	communitization,
	ard unit, eliminating such inte				
V	SANTA FE ENO BETTIA BROS Collins i Wari	INC 25%	3574.5	I her contained best of my her contained best of the company and company best company b	
(10 f) 7171-6	SANTA FE ENER BETTIS BROS I. Collins & WARK	25% 25% 25% 25% 25% 25% 25% 25% 25% 25%	ROFUSSION AND SURVEY OF SURVEY WE VEST	on this planetual sursupervison, correct to belief.  Data Surve	August 6, 1990  L Seal of M Surveyor  No. JOHN W. WEST, 676
330 660 990 13	20 1650 1980 2310 24	640 2000	1500 1000 500		RONALD 1 EIDSON, 3239

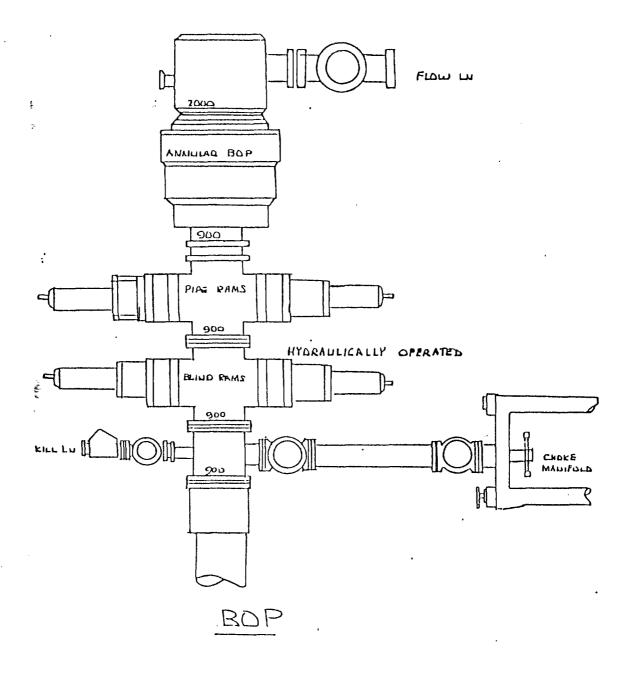


EXHIBIT "E"

BETTIS BOYLE & STOVALL

CROW FLATS FED COM "15" NO. 1

2180' FNL & 660' FEL SEC. 21, T16S, R28E

BOP Equipment Schematic

IBIT E



### willpark Technical Information

# Drilling Fluids Recommendations

•		Date	July	31, 198	39	
Company	Bettis Brothers	Location	Sec' <i>ls</i> ,	T165,R2	28E	
Well Name	Eddy County Prospect	County	Eddy	State	NM	

#### CASING PROGRAM

13 3/8" @ 4001

8 5/8" @ 2,0001

TD @ 9,600'

#### RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	Нg	
0-4001	8.4-9.0	32-38	NC	10.0	

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 easing point and spot a viscous pill to ensure proper pipe placement.

400'-2000'

8.5-10.5 32-34

NC

9.0 - 10.0

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.

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.

EXHIBIT "F"
BETTIS BOYLE & STOVALL
CROW FLATS FED COM "15" NO. 1
2180' FNL & 660' FEL SEC. 21, T16S, R28E
Mud Program



# Milpark Technical Information

# Drilling Fluids Recommendations

	Date	Ju]y	.31, 19	189	•
Company Bettis Brothers	Location	Sec 15	,T168,F	38E	
Well Name Eddy County Prospect	County	Eddy	State	ММ	

#### RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	рН	
2000'-7600'	8.4	28-30	NC	10.0-10.5	5

Drift 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.

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.

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.

76001-96001 8.8-9.2 32-36 10-12 9.0-9.5

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



# IVIIIpark Technical Information

Drilling Fluids
Recommendations

		Date _	July	31, 1	.989	,
Company	Rettis Brothers	Location	Sec 15	т165,	R28E	
Well Name	Eddy County Prospect	County	Eddy	State _	NM	

#### RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	ъH	
D4p(iii	Midd Wolgin	V ISCOURTY	Arringate	рн	l

Chloride for added shale inhibition. Add pre-hydrated Milgel slurry to supplement polymers for viscosity.

NOTE: KCL muds will exhibit slow increase in chlorides (when potassium base exchange is occurring if the same concentration of  $K^+$  (potassium) is maintained.

With property adjustments as dictated by hole conditions, this fluid should provide excellent properties for drilling, testing, logging, and casing operations.

```
WRS COMPLETION REPORT
COMPLETIONS SEC 15 TWP 16S RGE 28E P1# 30-T-0002 08/09/91 30-015-26490-0000 PAGE
                    * 2180FNL 660FEL SEC
                                                 SE NE
NMEX
           EDDY
                                                  SPOT
STATE COUNTY FOOTAGE
BETTIS-BOYLE-STOVALL

OPERATOR

1 CROW FLATS "15" FEDERAL COM

WF WSD

CLASS INIT FIN
WELL NO.
 3601KB 3577GR
                                       UNNAMED
OPER ELEV
                                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
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 POTENTIAL
IPF
                288 MCFD
                                          11/64CK
                                                     1HRS
                            36/IT 1856- 1874
                        W/
PREMIER PERF
                 SITP 840
          ©- 1855FT BHT 801
238MCFD TP 766 BHFP
280MCFD TP 710 BHFP
256MCFD TP 524 BHFP
288MCFD TP 501 BHFP
FPCAOF 359MCFD
                                 80F
                                    798
738
  8/64CK
  9/64CK
 10/64CK
                                    541
                                  516
 11/64CK
                                    GOR DRY
GAS GTY
          .803
```

CONTINUED IC# 300157026390 Tetroleum Information

PI-WRS-GET Form No 187

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盖屋

Corporation

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BETTIS-BOYLE-STOVALL
CROW FLATS "15" FEDERAL COM
                                                             WF WSD
                           INITIAL POTENTIAL
P/L CON NONE
                      /RESERVOIR
/PREMIER SD
1ST THRU 4TH PT TEST IN 60 MINS
TYPE FORMATION LTH TOP DEPTH/SUB BSE DEPTH/SUB
                          416
1123
1908
                                   3185
2478
        YATES
LOG
LOG
        QUEEN
        SN ANDRS
GLORIETA
                                  1693
241
LOG
LOG
                          3360
                          4618
5362
LOG
        TUBB
                                 -1017
LOG
                                 -1761
        ABO
        WOLFCAMP
                                 -3167
LOG
                          6768
       CISCO
CANYON
LOG
                          7692
                                 -4091
                          8064
LOG
                                 -4463
                                 -5050
LOG
        STRAWN
                          8651
                                 -5465
-5713
LOG
        ATOKA
                          9066
LOG
       MORROW
                          9314
LOG
       CHESTER
                          9418
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
WS 34260 PPM CL
                   PRODUCTION TEST DATA
PTF
                   500 MCFD
                                                   40/64CK 24HRS
PREMIER PERF
PERF 1856- 1874
ACID 1856- 1874
                                           1856- 1874
                        2700GALS
ΤĚ
      35
FM - PREMIER SD
PTF
                   359 MCFD
                                                               24HRS
PREMIER PERF
                                           1856- 1874
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CONTINUED

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COMPLETIONS SEC 15 TWP 16S PI# 30-T-0002 08/09/91 30-015-26490-0000
                                                                                                                    PAGE 3
BETTIS-BOYLE-STOVALL
                                                                                                                    WF
                                                                                                                              WSD
                                        CROW FLATS "15" FEDERAL COM
                                     PRODUCTION TEST DATA
FM - PREMIER SD
                                   LOGS AND SURVEYS /INTERVAL, TYPE/
LOGS
                                        DLL
                                                                                                                           DENL
LOGS
                                        SDBL
                    DRILLING PROGRESS DETAILS
                              BETTIS-BOYLE-STOVALL
BOX 1240
                            BOX 1240
GRAHAM, TX:76046
817-549-0780
LOC/1990/
RURT
DRLG 855
DRLG 3900
DRLG 6640
DRLG 8164
9700 TD, RNG LOGS
9700 TD, WOCT
TO 1940
09/25
10/17
10/23
10/30
11/06
11/13
11/20
11/30
02/01
02/08
03/08
            9700 TD, WOCT

PB OH TO 1940

9700 TD, PB 1940, TSTG

9700 TD, PB 1940, SI EVAL

9700 TD, PB 1940, WOPT

9700 TD, PB 1940, WO STATE FORMS

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
04/05
08/02
                             NO CORES, ONE DST RPTD
PREMIER SD DISCOVERY - SHALLOWER POOL
08/02
```

16S RGE

28E

ŧ

#### 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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05/13/2002			322151 			JAME				Hudin	Horas	нтакан ии. ч <b>№</b> - 1004—0137
(Novembersiels))	L CONS. C	COMMON	MOME C	STA	TES			DUFFICA	TE *	Expire	≄ Vız€ız	at 31, 1985
Drawe	T DEPAI	RTME	<b>1</b> C	OF TH	E IN	TERIOF	₹ 	οινι <b>έίο</b>		5. LEASE DE	чтачив	N AND SERIAL NO.
i,rtes	ia.	UREAU	OFILM	ND MAN	AGEME			D1 (1014)		NM-73.7	766	-
WELL CO	MADI ETIO	N OF	BECO	LAPLET	HON I	REPORT	ANI	n Loc	*	6. IF INDIAS	. ALLOT	TER OR TRIPE KAME
14. TYPE OF WE					707	ないとれて		10,50		A		
		WPLA.	61,125 83/917.1.	XX	1 1 1 K Ann	المراجع والمعافر		IVEO		7. I'SIT AUR	ERMENT	NAMB
L TYPE OF COM		neer.	PETG BACK	f1 f:					İ	S, PARM UR	LEASE P	(AME
2. NAME OF GERA		FIT COMPANIES	P. 7 F. 1		· · · · · · · · · · · · · · · · · · ·	Other M	RI	1 1991		Crow Els	ate "	15" Fed Com
Bettis, Bo	oyle & St	ovall	Soul	t F	Incar	1			· .]	9, well, 84.		
3. ADDRESS OF OF	PATOR				10			OFFICE			<u>_</u>	
P. O. BOX	1240, Gr	aham,	exas	7604						10. FIRLD A	,נססר מא	OR WILDCAT
4. LOCATION OF WE At surface						f Sec. 1		(R) "		Wild		K BLOCK AND BURNEY
							-		1	OR AREA		
At top prod. In	teran teborted	( Estan	S780,	FMI. A	6607	121			1			
At total depth	2180 ° F	Nt. & 6	60' FF	1.						Sec. 15	, I-l	<b>6</b> 5, R-28-E
				14. 5	ERVIT NO.		PATE	IRRUTE		12. COUNTY	O.M.	18. STATE
5. DATE BEUDDER	1 16. OATE TO	alizaria yanamani irinda		-	ng upungangang A SD a - 3 :					Eddy	7	N.M.
10/20/90		ы велсиен ,8/90	, 14. PA		(******* 25/91				7601 °			NA
TU/ ZU/ ZU			7.h 80 A		2 15 3017	TIPLE CONFI.		्रियाः विकासम्बद्धाः		ROTABY TO	1	CABLE TOOLS
<b>9.</b> 700	. 1	1,940		1	310W 31	<b>1</b>			1.50 dx	A11	- 1	
4. PRODUCING INTE	RVAL(8). OF T	FIR COMPL	1710 Y-TO	r. Borrow	THAT I	TO AND THE !				,	75	WAR DIRECTIONAL
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Title 18 U.S.C. Section 1991, 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.

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CMD :

OG6IWCM

ONGARD INQUIRE WELL COMPLETIONS

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

API Well No : 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)

FTG 2180 F N FTG

660 F E

Д

Lot Identifier:

B.H. Locn

15

168

28E

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 PF08 PF09 PF03 EXIT PF04 GoTo PF10 NEXT-WC PF11 HISTORY PF12 NXTREC PF05 PF06

Attachment

Date: 6/12/2002 Time: 12:06:42 PM

OG6ACRE CMD : C102-DEDICATE ACREAGE ONGARD 06/12/02 12:05:49 Page No : OGOMES -TQIX

API Well No 30 15 26490 Eff Date : 12-22-2000

96072 WILDCAT; PENN (GAS)

Pool Idn Prop Idn Spacing Unit 55700 OCD Order : 29516 CROW FLATS 15 FEDERAL COM Simultaneous Dedication: Well No: 001

Sect/Twp/Rng 15 16S 28E Acreage 160.00 Revised C102? (Y/N)

Dedicated Land:

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OG6IPRD CMD : INQUIRE PRODUCTION BY POOL/WELL ONGARD 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 ω 0 15 26490 Report Period - From : 01 2000 To : 04 2002

API	Wel	API Well No	Prop	Property Name	Name	: : : : :	Pro	odn.	Prodn. Days	Production	Volumes	1 1 1 1	Wel:
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Reporting Period Total (Gas, Oil) 18230

M0025: Enter PF keys to scroll

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

Date: 6/12/2002 Time: 12:07:14 PM

ABOVE THIS LINE FOR DIVISION USE ONLY

#### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMIN	IISTRATIVE APPL	ICATION CHECKLI	ST
THIS CHECKLIST IS MANDATORY F	FOR ALL ADMINISTRATIVE APPLICA VHICH REQUIRE PROCESSING AT T	TIONS FOR EXCEPTIONS TO DIVISION THE DIVISION LEVEL IN SANTA FE	RULES AND REGULATIONS
Application Acronyms:  [NSL-Non-Standard Loc: [DHC-Downhole Com [PC-Pool Commit [WFX-Wat	ation] [NSP-Non-Standard F nmingling] [CTB-Lease Co ngling] [OLS - Off-Lease S erflood Expansion] [PMX- D-Salt Water Disposal] [!PI	Proration Unit] [SD-Simultanecommingling] [PLC-Pool/Lease	o Commingling] asurement] sion]
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[B] Official Confidence of the	rking, Royalty or Over set Operators, Leaseho plication is One Which ification and/or Concurrent A ureau of Land Management - Commissioner	CELEB (CELECOXIB CAP 1299 YCER Approval by BLM or SLU of Public Lands, State Land Office tification or Publication is Attack	SULES) 100 mg
[3] SUBMIT ACCURATE OF APPLICATION IN		MATION REQUIRED TO P	ROCESS THE TYPE
[4] CERTIFICATION: I he approval is accurate and complete application until the required information.	te to the best of my knowledge	tion submitted with this applicage. I also understand that no act submitted to the Division.	tion for administrative tion will be taken on this
	nust be completed by an individua	al with managerial and/or supervisory	capacity.
James Bruce	Unes there	Attorney for A	Applicant $9602$
rint or Type Name	Signature	Title	Date
JAMES BRUCE		jamesbruc@aol	·COM
P.O. BOX 1056 ( SANTA FE, NM 87504		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:

Well: Crow Flats 15 Fed. Com. Well No. 1 (30-0.5-26490)

Location: 2180 feet FNL & 660 feet FEL

Well Unit: NE% 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 SW¼NE¾) 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,

ames brace

Attorney for Devon SFS Operating, Inc.

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Interest Owner	Address1	Address2	Cert. No. 7001 0360 000 2116	WI	Fax No.	r
Nearburg Exploration Company, I. 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				1
L.E. Opperman	500 W. Texas, Suite 830	Midland, TX 79701				
RBM-CO	2201 North Palm Street	Little Rock, Arkansas 72207				1

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% 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.

James Bruc	1 Blue
Attorney Dev	on SFS Operating, Inc.
I/we do no	et 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

TOWNSHIP 16 South	RANGE 28 East	NMP <b>M</b>	
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Page: 1 Document Name: untitled

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H								
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06/12/	ONGARD							CMD :

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

PF01 HELP PF02 PF07 BKWD PF08 FWD	E 40.00 CS V06172 0001 DEVON SFS OPERATI 04/01/06	D 40.00 CS V06172 0001 DEVON SFS OPERATI 04/01/06
PF03 EXIT PF09 PRINT	F 40.00 CS V06172 0001 DEVON SFS OPERATI 04/01/06	C 40.00 Federal owned
PF04 GOTO PF05 PF10 SDIV PF11	G 40.00 CS V06172 0001 DEVON SFS OPERATI C 04/01/06	B 40.00 Federal owned
PF06 PF12	H 40.00 Federal owned C A	A 40.00 Federal owned C

Page: 1 Document Name: untitled

OG5SECT	CMD :	
INQUIRE LAND BY SECTION	ONGARD	
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06/12/02 12:04:56 OGOMES -TQIX PAGE NO: 2

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

PF01 HELP PF02 PF07 BKWD PF08	Federal owned	M 40.00	Federal owned	L 40.00
PF03 EXIT FWD PF09 PRINT	Federal owned	40.00	Federal owned	40.00
PF04 GoTo PF05 PF10 SDIV PF11	Federal owned	0 40.00	Federal owned	1 40.00
PF06 PF12	Federal owned	P 40.00	Federal owned	1 40.00

CMD : OG6IWCM INQUIRE WELL COMPLETIONS ONGARD

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

API Well No : Pool Idn 96072 WILDCAT; PENN (GAS)

15 26490

Eff Date : 12-22-2000

WC Status :

 $\triangleright$ 

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)

工 15 16S 28E FTG 2180 F N FTG 660 F E ħ

Lot Identifier:

B.H. Locn

Dedicated Acre: 160.00

Lease Type

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

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

Date: 6/12/2002 Time: 12:06:42 PM

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

Page No :

API Well No 15 26490 Eff Date : 12-22-2000

Spacing Unit Prop Idn Pool Idn 96072 WILDCAT; PENN (GAS) 29516 CROW FLATS 15 FEDERAL COM 55700 OCD Order : Simultaneous Dedication: Well No: 001

Sect/Twp/Rng 15 16S 28E Acreage : 160.00 Revised C102? (Y/N)

Dedicated Land:

 $\Omega$ Base U/L Sec H G B A 75 15 15 168 16S 16S Twp Rng Acreage 28日 28E 28E 40.00 40.00 40.00 L/W z z z z Ownership ST FD FD Lot Idn

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PF01 PF07 BKWD HELP E0005: Enter data PF02 PF08 FWD to modify PF09 PF03 EXIT 20 PF keys to scroll PF04 GoTo PF10 LAND PF05 PF11 NXTSEC PF12 RECONF PF06 CONFIRM

Date: 6/12/2002 Time: 12:06:54 PM

OG6IPRD CMD : INQUIRE PRODUCTION BY POOL/WELL ONGARD 06/12/02 12:06:08

OGOMES -TQIX

Page No:

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

30 API Well 26490 26490 No CROW FLATS CROW Property Name FLATS 15 <u>1</u>5 FEDERA FEDERA 02 XX/WW Prodn. 02 02 Days Prod 28 16231 966 Gas Production Volumes Water Stat Well ਸ ਸ

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26490 CROW FLATS

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Reporting Period Total (Gas, Oil) 18230

M0025: Enter PF keys to scroll

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

Date: 6/12/2002 Time: 12:07:14 PM

certify Mat the foregoing is true

Approved by Conditions of approval, if any:

(This space for Federal by State office use)

Approved by

Original Second by Address Sulfaments

OIL	CONSERVATION	147
044	e 1et ST.	

(June 1990) DEPARTMEN BUREAU OF I SUNDRY NOTICES AN	RED STATES ATE OF THE INTERIOR AND MANAGEMENT OF TO deepen or reentry to a different reservoir.	SIA, NM Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No. NM-71766  6. If Indian, Allottee or Tribe Name
Use "APPLICATION FOR	PERMIT - " for such proposals	
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well  Oil  Well  Well  Other  2. Name of Operator  Santa Fe Energy Resources, Ir	nc.	8. Well Name and No. Crow Flats "15" Fed Com #1 9. API Well No.
3. Address and Telephone No. 550 W. Texas, Suite 1330, Midl 4. Location of Well (Footage, Sec., T., R., M., or Survey De 2180' FNL & 660' FEL, Sec. 1	escription)	30-015-36490  10. Field and Pool, or exploratory Area  Wildcat
CHECK APPROPRIATE BOY(s	i) TO INDICATE NATURE OF NOTICE, REPOR	11. County or Parish, State  Eddy NM
TYPE OF SUBMISSION	TYPE OF ACTIO	
Notice of Intent  Subsequent Report  Final Abandonment Notice	Abandonment  Recompletion  Plugging Back  Casing Repair  Altering Casing  Other Request SI statu	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.)
<ol> <li>Describe Proposed or Completed Operations (Clearly state al give subsurface locations and measured and true vert</li> </ol>	l pertinent details, and give pertinent dates, including estimated date of st tical depths for all markers and zones pertinent to this work.)*	tarting any proposed work. If well is directionally drilled,
Santa Fe Energy Resources, Inc. extension of its current shut-inhowever it is currently unecond	respectfully requests that this we in status. The well is completed an omic to connect to pipeline.	ell be given a one year nd capable of production,
Santa Fe continues to evaluate additional well is planned when	the viability ECEIVED vengas prices in rease.	lopment in this area. An
	JAN 2 3 1895	RECTION AND AND AND AND AND AND AND AND AND AN
	OIL CON. DIV	DEC 0 6 1995

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.

Title

Production Clerk

Potroleum Enstager

NM OIL CONS COMMISSION

Drawer DD

Artesia, NM 88210

FORM APPROVED
Budget Bureau No. 1004-0135
Express: March 31, 1003

Expires: March 31, 1993

5. Lease Designation and Serial No.

#### NM-71766

6. If Indian, Allottee or Tribe Name

UNITED STATES
OF DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

#### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

Use "APPLICATION FOR	R PERMIT—" for such propo	sais	<u></u>
SUBMIT	IN TRIPLICATE	RECEIVED	7. If Unit or CA. Agreement Designation
Type of Well Oil Well XX Well Other			8. Well Name and No.
Name of Operator Santa Fe Energy Operating P	artners, L.P.	JUN - 9.*94	9. API Well No.
Address and Telephone No.  550 W. Texas, Suite 1330, M. Location of Well (Footage, Sec., T., R., M., or Survey Dr.		O. C. D. ARTESIA, OFFICE	10. Field and Pool, or Exploratory Area Wildcat
2180' FNL and 660' FEL, Sec. 1			11. County or Parish, State  Eddy Co., NM
CHECK APPROPRIATE BOX	s) TO INDICATE NATURE	OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
Notice of Intent	Abandonment Recompletion		Change of Plans New Construction
Subsequent Report  Final Abandonment Notice	Plugging Back Casing Repair Altering Casing		Non-Routine Fracturing Water Shut-Off Conversion to Injection
- I mai Avandomient Podec		iest SI status	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

1				
Signed	Title	Sr. Production Clerk	. Date _	May 17, 1994
(This space for Federal/or State office use) (ORIG. SGD.) JOE G. LARA Approved by Conditions of approval, if any:	Title	PETROLEUM ENGINEER	. Date _	4/7/94

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.

Drawer DD

Artesia, NM 86210 COMSEAU

IN DIVISION

	RECT	
Form	3160-5	
June	1990)	
	APR 15	

EP'MANAM 193

UNITED STATES DÉPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ARTHEO TO
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RECH VED FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 Billease Designation and Serial No.

NM-71	766	

6. If Indian. Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS MAY 0 3 1993 Do not used 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	7. If Unit or CA, Agreement Designation
i. Type of Well	
Oil X Gas Well Other	8. Well Name and No.
2. Name of Operator	Crow Flats 15 Fed Com #
Santa Fe Energy Operating Partners, L.P.	9. API Weil No.
3. Address and Telephone No.	
550 W. Texas, Suite 1330, Midland, TX 79701 (915) 687-3551	10. Field and Pool, or Exploratory Area
4 Location of Well (Footage, Sec., T., R., M., or Survey Description)	Wildcat
	11. County or Parish, State
2180' FNL and 660' FEL, Sec. 15, T-16S, R-28E	
	Eddy Co., NM
	_ <del></del>

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

TYPE OF SUBMISSION TYPE OF ACTION	
Notice of Intent  Abandonment  Recompletion  Plugging Back  Casing Repair  Altering Casing  Altering Casing  Other  Request SI status  Change of Plans  New Construction  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water  (Note: Report results of multiple completion or Recompletion or Recompletion Report as	

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. Lhereby certify that the foregoing is true and correct				
Signed My Culleugh	Title _	Sr. Production Clerk	Date_	April 14, 1993
(This space for Federal or State office use)				
Approved by (ORIG. SGD.) JOE G. LARA	Title _	DETROLFUM ENGINEER	Date_	APR 28 1993
Conditions of approval, if any:	_			

<sup>13.</sup> 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.)\*

Form 3160-5 (November 1983) (Formerly 9-331)	UNITED STATES DEPARTMENT OF THE INT	SUBMIT IN TRIPLICATE®  (Other instructions on re-	Budget Bureau I Expires August 5. LEASE DESIGNATION	31, 1985
SU	BUREAU OF LAND WANAGEM	S ON WELLS	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
(Do not use the	is form for proposals to drill or to deepen or p Use "APPLICATION FOR PERMIT—" for st  OTHER	ing back to Achieve Perservoir.	7. UNIT AGREEMENT NA	ме
2. NAME OF OPERATOR	RGY OPERATING PARTNERS, L.P.	O. C. D.	8. FARM OR LEASE NAM  Crowflats 15 9. WELL NO.	
P. O. Box 232	27 Carlsbad, New Mexico 88 (Report location clearly and in accordance with	221-2327 505-887-0821 any State requirements.*	#1 10. FIELD AND POOL, OF	R WILDCAT
At pullate	2180' FNL & 660' FEL		11. SEC., T., E., M., OR B SURVEY OF AREA Sec 15 T16S	R28E
14. PERMIT NO.	15. ELEVATIONS (Show wheth	er DF, RT, GR, etc.)	12. COUNTY OF PARISH Eddy	
16.	Check Appropriate Box To Indica	te Nature of Notice, Report, or C	Other Data	
-	NOTICE OF INTENTION TO:	SUBSEQU	UENT REPORT OF:	_
17. DESCRIBE PROPOSED proposed work, nent to this work	MULTIPLE COMPLETE  ABANDON*  CHANGE PLANS  USING INTEGRITY TEST  OR COMPLETED OPERATIONS (Clearly state all per life well is directionally drilled, give subsurface	tinent details, and give pertinent dates, locations and measured and true vertical	al depths for all markers	on Well rm.) e of starting any and zones perti-
	ssure annulus to 500% with Ch		WHENU OF L	EIVED &
3. Test	for 30 minutes per BLM guid	elines	1000	-IVCO 臺\
4. See	attached chart.		INAC	9 1993
			C. DIST. 6	w Mexico
D.P	at the foregoing is true and correct  Title	Area Superintendent	Janua	ry 12, 1993
SIGNED			DATE Sandar	
APPROVED BY	TITLE . APPROVAL, IF ANY:		DATE	

r orm 5100-1 (November 1983)] (formerly 9-330) Drawe	<sup>r</sup> DEPAR	TME	NT O	F TH	E IN			DIVI <b>640</b> See (See (	ather in-	5, t.e.	Expire	Bure s Aug	ed. Bu No. 1004-0137 ust 31, 1985
WELL CO	MPLETION	l OR	RECO	MPLET	ON F	REPORT		D LQ	G *	6. IF	INDIAN.	ALLO.	TTEE OR TRIBE NAME
1s. TYPE OF WEL	.L: 011		GAS WELL		rý 🖺 [	En.Zn	FM	10 ZU		7. UN	IT AGRE	EMENT	r NAME
b. TYPE OF COM		<u> </u>	W 7.1.1.	Z), p	سة <u>المي</u> لين ٢٨		RECE	IVEO					
WELL	OVER L. ES	EL.	BACK E	DIFF	vr.	Other	45.1	1 400		S. 1/A	M OR	LEASE	NAME
2. NAME OF OPERAT		7.3	0 4	L	1	14	I MAI	1 199	1 -			its '	"15" Fed Com
Bettis, Bo		vall	ronla	1.6	nerge	1	0. (	D		9. WĘ	LL NO.	1	
P. O. Box		ham, 1	exas	76046	00	Al	RTESIA	OFFICE	1	10. F	ELD AN	D POO	L, OR WILDCAT
4. LOCATION OF WE	i.t. (Report locat	ion clearl	y and in a					te)*			Vildo	at	,
At surface	•	2180'	FNL &	660'	FEL o	f Sec.	15			11. s			OR BLOCK AND SURVEY
At top prod. int	erval reported b	elow 2	2180'	FNL &	6601	FEL							
At total depth	2180' FN	1 & 64	in' EF	ſ						Sec	. 15.	T	1 <b>6</b> -S, R-28-E
At total depair	2100 IN		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RMIŢ NO.		DATE	ISSUED		12. c	OUNTY		13. STATE
	-									Ede	ARISH Hv	•	N.M.
15. DATE SPUDDED	16. DATE T.D.	REACHED	17. DAT	E COMPL.	(Ready to	o prod.)		ATIONS (E		T, GB, I		19.	ELEV. CASINGHEAD
10/20/90	11/18				5/91		3577		3601'				ŅA
20. TOTAL DEPTH, MD	.		T.D., MD &	- 1	. IF MUL HOW M N	TIPLE COMP	L.,	23. INT	ervals Lled by	ROTA	RY TOO	LS	CABLE TOOLS
9.700 24. PRODUCING INTER		·	(CIBP			<u> </u>	,	<u> </u>	<del>-&gt;</del> !		M J. 1	[ 2	5. WAS DIRECTIONAL
24. PRODUCING TATE		3 (CMILL	110,8 10.	, 50110.11,			,					-	SURVEY MADE
1856' -	1874' Pre	mier S	Sand										No
26. TYPE ELECTRIC								<del></del>			<del></del>	27. W	AS WELL CORED
DLL-MG, SF	T SD-DSNL												No
28.			CASI	ING RECO	RD (Rep	ort all strir	ge act i	n seell)					
CASING SIZE	WEIGHT, LB	./FT.	DEPTH SE	T (MD)		I.E SIZE	_	CEZ	MENTING	RECORD			AMOUNT PULLED
13-3/8	48	-		58	(- <del></del>	7 1/2	_	350 s					None
8-5/8	32			00	<u> </u>	1	$ \frac{1}{1}$	,130 s	acks				<u>None</u>
	_				ļ		_						
29.	<del></del>	LINER	RECORD				1	30.	7	UBING	RECO	ORD	<u> </u>
SIZE	TOP (MD)	BOTTON	(MD)	SACKS C	EMENT*	SCREEN (	мв)	SIZE			BET (M		PACKER BET (MD)
								2-3/	8	181	5.32		1809.57
31. PERFORATION REC	CORD (Interval, e	ize and r	iumber)			32.	AC	ID, SHOT	, FRACT	URE. C	EMEN'	r squ	EEZE, ETC.
1856' - 18	17/11 /3/ h	0100)	(0.511	dia)		DEPTH I	NTERVA	(MD)	AM	OUNT A	ND KIN	DOF	MATERIAL USED
1070 - 10	574 (JB II	OTES)	(0.)	uia/		1856	- 18	74		<del></del>			Acetic Acid_
						1			2700	_gal	lons.	MOD	101 Acid
													<del></del>
33.*					PROI	OUCTION		<del></del>	<del>!</del>		-		
DATE FIRST PRODUCT	ION PROI	CCTION A	ETHOD (	lowing, g	ae lift, pi	umping—siz	e and t	ppe of pur	np)		WELL	STATU	B (Producing or
NA		Flow.	ing								~.	nut-	in
DATE OF TEST	HOURS TESTED	СН	OKE SIZE		N. FOR PERIOD	OIL-BBL	•	GAS-M	CF.	WATI	R-BBL		GAS-OIL RATIO
2/14/91	24		1/2"		<del></del>	<u>-0-</u>		510		<u> </u>	-0 <b>-</b>		
FLOW. TUBING PRESS.	CASING PRESSU		CULATED HOUR RAT	1 -		GAS	мсғ.	1	WATER-		ļ	OIL G	RAVITY-API (CORR.)
65 34. disposition of G	PKI.	r fuel. ve	nted. etc.)	<u> </u>			510		. <u></u>	-	WITNES	SED "	
To be solo				on ni	nelin	e conne	otic	n					
35. LIST OF ATTACH!	MENTS	CLY WIG	لِـــا ا لــــ بــــد.	OII PI	herrii	COMIE	CLIU			וושנוו	<u>nett</u>	-eat	
DST report	, 4-Point	test.	, devi	ation	surve	y, loas	S .						535
36. I hereby certify	that the forego	ing and a	ttached in	nformation	is comp	lete and co	rrect as	determin	ed from	BVA IIA	ilable r	ecords	R 7 1001

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

TOP	воттом	DESCRIPTION, CONTENTS, ETC.		TOP	ь
			NAME	MEAS, DEPTH	TRUE VERT, DEPTH
6521'	6641'	7 0 0	Yates Queen	416'	416'
		mud. 30 psig. See attached for further information.	San Andres Glorieta Tubb	1908' 3360' 4618' .	1908' 3360' 7418'
			Abo Wolfcamp Cisco	5362' 6768' 7692'	5362 6768 7692
			Lanyon Strawn Atoka	80/4' 8651! 9066!	80747 86511 90661
			Morrow Chester	9314	9314' 9418'
	<del></del>				
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con		eviation  • Depth	tests e		ned the		ng result Degrees	
	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'			•		· ,	
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	3/4°	2,995'		•			<del></del>	
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·	3/49	4,002'					***************************************	
ŧ	1/2°	4,498'			•			·
	3/4°	4,826'		<u> </u>				
	1/4°	5,314'					•	<del></del>
	3/4°	5,785'	,					
	1·1/2°	6,420'					***************************************	
	1 1/4°	6,825'		•				
	1 1/4°	7,331'					<del></del>	
				Dr1111n	g Contra	ctorE	xeter Drill	ing Company
				By S.	Houtshans	Vice Bro	stete	
ier ()	hed and (	sworn to	before :				December	hern Divisi
	Part of the same	errik. Merke	<b>}</b>			, UU	c. bet	

Ans 6....

## 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 psiq

2973 psig

INITIAL FLOW:

19 - 19 psig

16 - 16 psiq (30 minutes)

INITIAL SHUT-IN:

167 psiq

101 psiq (60 minutes)

FINAL FLOW:

41 - 41 psiq

34 - 34 psiq (60 minutes)

FINAL SHUT-IN:

167 psig

101 psiq (120 minutes)

FINAL HYDROSTATIC:

3012 psig

2973 psig

Bottom hole Temperature 114°F.

BAKER	SERVICE	TOOLS
	<b>医产以(1.4.0</b> )	144-4

## DRILL STEM TESTING OPERATION REPORT

Of North &	ORKHINC F	1220				·····	·
IO LANG I/C	XAS 29					Sel.	Porosity
Number CROW	Flats #	15 Federa			T No. #	Net Ft	. Pay
Exette Del		Top Choks	Bottom Che	oke 3//	Flow No. 1		
4-01	11	Size Hole 7.2	r Size Rat H	010	Shut-in No. 1		60
	O'FEL.	Casing Size & Wt.	89 "3"	to som	Flow No. 2		
		Size & Wt. D. P. c		2 16,60	Shut-In No. 2		120
~	······································	Site Wi Pine					
<u> </u>		I. D. of D. C.	K!		Shul-in No. 3		
H.CAT		tempt of C. C. at	ove Tool 744		Bottom Hole Te	1100	
		Total Depth	L U 1	<del></del>	Mud Weight 5	_ '	
w Mexico		1015; Depth	6921-6641	/	Gravity		· · · · · · · · · · · · · · · · · · ·
W THE BUILD	····				Viscosity 36	)	
360/	,	Interval Perforated	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1	Teel Cannad &	6:02 A.	112
80	<u> </u>	Type of Test	<u>u u entiena.</u>		(60) Obsuse 30		<u> </u>
	and the second		Bollow	of Top Packer	6513	7	
tun Prior to Test: Ye		AM Div		n of Second Packer	1 1-011		
	@ Botto		}	Straddie Packer at	-		
944 <u>MO</u>			1	Fourth Packer	-	······································	
oll <u>ND</u>			1		120'		
water			_	of Test Interval	95	_ Collete _ 74	DP.
w, during which flow or		emula feach sumace		nterval: Anchor			DP.
No				Straddie; Anchore		Collers	
, 50110	M HOLE SAMPLER			ool piugged?		as anchor plugged?	-
Sampler:				raddia pkr. hold? 🚾	P!	ess, below straddle	
of Samplers	K.,	760		.RK\$;		FAC \$154	£ 5 50
of Sample:		7600	2 05.	Test Re	v For	TRE YES	643-6/71
	•	0					
			<u> </u>	Bettis Bo		FO Y. B. (	
		260	Ø oc.	P.O. B	ox 1240	76046	
¥2246	Blan Til	0	Ø oc.	P.O. B	ox 1240		
v.: 33240	PPM Tit	ente o	Ø oc.	P.O. B	ox 1240	76046	
		0	Ø oc.	P.O. B	ox 1240	76046	RI F
sier R. W.:	Gae/Oil Ratio	ente o	© cc.	f.O. B. GEALAN	ex 1240	76046 EGIE	
	Gae/Oil Ratio	ente o	© cc.	f.o, B Grahan	ex 1240	76046	
ter R. W.: 34, 2	Gae/Oil Ratio	ente	ou fi.	GRALAN	ILL	TGDY6 EGIE	n Under Streddle
ter R. W.: 34 Z	Gas/Oil Ratio	Rate E	0 cc. cu ft.  Reacr	det No.	TYPE	TGDY6 EGIE	n Under Stredale Clock
O STO LOO. 649	Gae/Oil Ratio	Apte Cap. Keso	Reacr	det No.	Type	FIGIE	n Under Strädgle  Çibak  No.
et R. W.: 34 3 Sile R. W.: 34 3 No. 1804 1570 Loo. 449	Gas/Oil Ratio	Type K-3 Cap. Y050 inside 6574	No. /3077 Loc	det No.	Type	TGDY6  EGIE  No. Loc. Outside	n Under Etraddle Clock No. Hrs.
Pro Loc. 649	Gae/Oil Ratio	Apte Cap. Keso	No. /3077 Loc	det No.	Type	FIGIE	n Under Etraddle Clock No. Hrs.
O   St   St   St   St   St   St   St   S	Gas/Oil Ratio	Type K-3 Cap. Vesto Inside 6576	No. 11077 Loc. 576 Outside Flatd 2973	det No.	Type	TGDY6  EGIE  No. Loc. Outside	n Under Etraddle Clock No. Hrs.
let R. W.: 34 3  ple R. W.: 34 3  No. 1604  Dec. 1606  Outside  Field	Gas/Oil Ratio	Type K-3 Cap. Keso Inside 6576	O cc. cu ft.  Reacr  No. /1077  Loc5/6  Outside  Flata  2.973	det No.	Type	TGDY6  EGIE  No. Loc. Outside	n Under Etraddle Clock No. Hrs.
Oler R. W.: 34 2  Ole R. W.: 34 2  Loo. 47 9  Outside  Fletd  A 3012  K 30/2	Gas/Oil Ratio	Type K-3 Cap. Vesto Inside 6576	No. 11077 Loc. 576 Outside Flatd 2973	det No.	Type	TCDYC  Field	Clock No. Hrá. Correcte
Die R. W.: 34, 2  Die R. W.: 34, 2  Die R. W.: 34, 2  Loc. 449  Outside  Fietd  A 3012  K 3012  C 19	Gas/Oil Ratio	Type K-3 Cap. Y050 Inside 6574	O cc. cu ft.  Recor  No. 11077  Loc. 576  Outside 5773  2973	det No.	Type	TGDY6  EGIE  No. Loc. Outside	Clock No. Hrá. Correcte
No. 1804  No. 18	Gas/Oil Ratio	Type K-3 Cap. Y050 Inside 6574  Press. IH FH IF-1	O cc. cu ft.  Recor  No. /3077  Loc. 45/6  Outside 41  Flata 2973 2973	det No.	Type	TCDYC  Field	Clock No. Hrá. Correcte
1et R. W.: 34 2 ple R. W.: 34 2 250 Loc. 449 4 Outside Fletd A 30/2 K 30/2 8 / 9 C / 9	Gas/Oil Ratio	Type K-3 Cap. 1850 Inside 6544  Press. IH IF-1 FF-1	O cc. cu ft.  Recor  No. 11077  Loc. 576  Outside 5773  2973	det No.	Type	TCDYC  Field	Clock No. Hrå.  Correcte
No. 1804  No. 18	Gas/Oil Ratio	Type K-3 Cap. 1850 Inside 554 Press. IH FH IF-1 FF-1 18-2	O cc. cu ft.  Recor  No. /3077  Loc. 45/6  Outside 41  Flata 2973 2973	det No.	Type	TCDYC  Field	Clock No. Hrå.  Correcte
1er R. W.: 34 2 ple R. W.: 34 2 Display Loc. 449 Coutside	Gas/Oil Ratio	Type K-3 Cap. 18.50 Inside 6576  Press. IM FH IF-1 FF.3 IW-2 FF-2	O cc. cu ft.  Reacr  No. 11077 Loc. 576  Outside 41 2973 2973 16 34 34	det No.	Type	TCDYC  Field	Clock No. Hrå.  Correcte
1er R. W.: 34 2 ple R. W.: 34 2 Display Loc. 449 Coutside	Gas/Oil Ratio	Type K-3 Cap. 1850 Inside 554  Press.  IH  FH  IF-1  FF-1  IW-2  FF-2  IP-3	O cc. cu ft.  Recor  No. /3077  Loc. 45/6  Outside 41  Flata 2973 2973	det No.	Type	TCDYC  Field	Clock No. Hrå.  Correcte
Dier R. W.: 34 3 No. 1804 No.	Gas/Oil Ratio	Type K-3 Cap. V0.50 Inside 6.576  Press. IH IF-1 FF-1 IF-2 IF-3 FF-3	O cc. cu ft.  Reacr  No. 11077 Loc. 576  Outside 41 2973 2973 16 34 34	det No.	Type	TCDYC  Field	Clock No. Hrå.  Correcte
De R. W.: 34, 7  De R.	Gas/Oil Ratio	Type K-3 Cap. Y650 Inside 6574  Press. IH FF.1 FF.3 FF.3 SIP-1	O cc. cu ft.  React  No. /1077  Loo5/6  Outside	det No.	Type	TCDYC  Field	Clock No. Hrá. Correcte
Die R. W.: 34 2  Die R.	Gas/Oil Ratio	Type K-3 Cap. 19.50 Inside 6556  Press.  IH FF-1 FF-2 IF-3 FF-3 SIP-1 SIP-2 SIP-3	O cc. cu ft.  React  No. /1077  Loo5/6  Outside	der No.  Clock Nd. 20/87  Hrs. 48	Type	Pield	Clock No. Hrs. Correcte
Die R. W.: 34 7  Die R. W.: 34 7  No. 1606  Die R. W.: 34 7  Loc. 447  Outside  K 30/2  B / 9  C / 9  E / 9  H II  D / 67  G / 67  J IOIAN	Gas/Oil Ratio	Type K-3 Cap. 19.50 Inside 6556  Press.  IH FF-1 FF-2 IF-3 FF-3 SIP-1 SIP-2 SIP-3	O cc. cu ft.  React  No. /1077  Loo5/6  Outside	der No.  Clock Nd. 20/87  Hrs. 48	Type	TCDYC  Field	Clock No. Hrs. Correcte
Definition R. W.: 34, 7    Spie R. W.: 34, 7    Spie R. W.: 34, 7    Loc. 44, 7    Countries   Countri	Gas/Oil Ratio	Type K-3 Cap. 19.50 Inside 6556  Press.  IH FF-1 FF-2 IF-3 FF-3 SIP-1 SIP-2 SIP-3	O cc. cu ft.  React  No. /1077  Loo5/6  Outside	Clock No. 20187 Hrs. 48  Corrected  WELL OW	Type Cap. Inside Press. IH FH IF-1 IF-2 IF-3 RF-8 SIP-1 SIP-8 SIP-3 NERS REPRESE	Pield	Clock No. Hré. Correcte

BAKER	SERVICE	TOOLE
		14454

#### DRILL STEM TESTING SEQUENCE REPORT

_	ieter		COMPENY	Chetis Royles Stouth
. 20			NE # 122	
a d urith		EAGUREMENTS		DATE TIME SEQUENCE OPERATIONS
ed with				11/6 3400 OUT OF the hole + unloady make
well tes				Tost Tools FOR OST #1
tic				ONS TIH to Bottom OF CASING
þ <b>e</b>				0230 Whit to RUN in hole
anifold	with chokes			0400 Finish TIN
20				0530 Tool ON Butout Ris UP SURFACE CONJONENT
e paud	P81	Oz.	MOF/D	Same throughout Flow Por ind beech skin Bu
A.E	PB)	CHONE	MOTIO	0632 Shut Took IN Fee 1st Shut in Reciar
				10732 Open Tool FOR 2 the Flow ore just with No B's
				They or Rived does Theough out I AM Flow or Ried
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				1032 Rie down sugface primmit + PRI
9	CAN_F	OA		1530 gut at the + Break dawn + Load out Test
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<del></del>	ļ <u> </u>			Ft. of Give Recovered in Drill Pipe
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			<del> </del>	Top Gampie R.W. 35, 400 PPM Titeate
	<del> </del>	<u> </u>	<del></del>	
				Middia Sample R.W.
				CORDIN DESIGNATION OF THE CORDINATION OF THE CORDIN
DHNIC	IAN	PARE	ERVOIR ANALYBIS	87 NO WELL OWNERS REPRESENTATIVE (Please Print Legibly)
1	5 . J			
, K	KAY	27		
	•			- C 111 A 11 A
3 # EBT	-20-15 (4/67)		No. F	Final Copies 7 Tom Smith & Albert BRYAN

(November 1) (Formerly, 9-	-331) <b>D</b> EF	PARTMENT OF T BUREAU OF LAND N			5. LEA	NDIFES August 31 SE DESIGNATION AND M-71766	
(Do n	SUNDRY	NOTICES AND or probability to application for personal pe	REPORTS OF BLUE DE	N WELLS ick to a different reservoir,	6. tF 1	NDIAN, ALLOTTRE OI	TRIBE NAME
OIL WELL 2. NAME OF	GAS XX	OTHER , 91 DE - 2h	ล <b>ศ 1</b> 0 20	RECEIVED	<u> </u>	T AGBREMENT NAME	
Bettis,	. Boyle & St	covall Santa !	e Inergy	MAR 1 1 1991 O. C. D.	i	w Flats "15	' Fed Com
4. LOCATION	or well (Report bace 17 below.)	caham, Texas 76 ocation clearly and in according	0046 ordance with any S	ARTESIA OFFICE	Wil	l and pool, or w dcat	
2180' F	NL & 660' F	TEL of Sec. 15			· '	15, T-1 <b>6</b> -S	
14. PERMIT NO	o	15. ELEVATIONS	(Show whether DF, 3576.9		12. co Ed	dy	3. STATE N.M.
16.		4	To Indicate N	ature of Notice, Report,			
* *	NOTICE	OF INTENTION TO:	<u></u>		BSEQUENT REP	ORT OF:	
TEST WA	TER SHUT-OFF	PULL OR ALTER CO	SING	WATER SHUT-OFF		REPAIRING WEL	L
FRACTUBI	1	MULTIPLE COMPLE	TE	FRACTUBE TREATMENT		ALTERING CASIS	'c
SHOOT OI	J	ABANDON*	<b> </b>	Other). Complet	·	ABANDONMENT*	XX
REPAIR W		CHANGE PLANS		(Note: Report r	esults of mult!	ple completion on	Well
17. DESCRIBE I	PROPOSED OR COMP.	ETED OPERATIONS (Clearly directionally drilled, give	state all pertinent subsurface locati	details, and give pertinent ons and measured and true	dates includin	port and Log form. g estimated date o for all markers ar	f etarting and
/22/91:	Installed with bit a	ll" X <sup>3</sup> 00 by 9" 30 and tubing. Tagged	100 tubing hea at 2001' K.B.	it. Unloaded and rad, and 11" X 3000 BOP Spotted 250 gall <b>ons</b> s and bit. Rig <b>up</b>	. Went in 10% Acetic	the hole acid at	
, <i>(2)</i> /71:	Services, Perforate (0.5" dia). 2% KCL wa Displaced 2 2.5 BPM at Total load seating ni	ran POC log from with 4" Premiúm ch Ran Baker Full p ster. Removed BOF 50 gallons 10% acet 1340 psig. ISIP 84 to recover 16 ba pple. Recovered es	1993 to 1500 harge casing goacker, and 56 and set packetic acid: Bread psig, in 10 arrels. Swabbatimated 12 ba	' K.B. Ran and set of un from 1856' – 1874' joints of tubing. Ro er at 1810' K.B. with eak down pressure at 1 minutes 220 psig, in ed 2 hours, made 13 ro rrels load water. Re	CIBP at 1 K.B. with everse with th 35,000# 200 psig, p 35 minutes uns, 12th covered 2-	940' K.B. 36 holes 6 barrels tension. umped in at -0- psig. run from 3 gallons	
/24/91:	14 hour SI light spray recovered 101 acid ar 1620 psig,	TP 855 psig. Open of water with gas 1/4 barrel water. H od 54 ball sealers. maximum rate 5.1 BF s 350 psig. 75 barr	and blew to 2 after 6 minut booked up Hall Maximum trea M, average in cels load to r	runs, 2' to 6' gas f 5 psig on 3/4" choke es. Made 1 swab run iburton and treated w ting pressure 1860 ps jection rate 4.3 BPM. ecover. Open and ble	in 45 minut to seating ith 2700 ga ig, average ISIP 1000	es. Very nipple and llons MOD pressure psig, in	
18. I bereby c	ertify that the for	egoing to true and correct		n Ra c			4-5-1
SIGNED _	X111162	+ Ole reco	TITLE CO	Welting Smy	<u>,                                    </u>	ATE 2/2/	19/
(This space	e for Federal or S	tate office use)			an in the second		. 8193
APPROVE	D BY		TITLE			ATE	() 据其:
CONDITIO	ONS OF APPROVA	L, IF ANY:			* 4	AR 7 Di	
						网络一套 二氢烷基	

**53**5 (655,745) 1004 654 55

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.
8:00 AM well flowing to pit on 40/64" choke. TP 65 psig, estimated 800 MCF/day with a

8:00 AM well flowing to pit on 40/64" choke, TP 65 psig, estimated 800 MOF/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 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.

./25/91:

### Submit 5 Cores Appropriate District Office DISTRICT I P.O. Box 1980, Hobbit NM 88240 REC State of New Mexico

Energy, Minerals and Natural Resources Department "H DIVISION

RECEIVED Form C-104

See Instructions
MAR = 4 1991

OIL CONSERVATION DIVISION P.O. Box 2088

O. C. D. ARTESIA, OFFICE

DISTRICT II REC:
P.O. Drawer DD, Anesia, NM 88210 DISTRICT III

3 AM 9 51 Santa Fe, New Mexico 87504-2088

•	REQUEST F				JTHORIZA JRAL GAS				
rator	1010	ANSF	JAT OIL A	/ NATO	JHAL GAS	Well API	No.	<del></del>	
Santa Fe Energy O	perating Pa	rtners	s, L.P.		<del></del>				
iress	te 1220 M	. 11	. m	70701					
550 W. Texas, Su:  ason(i) for Filing (Check proper bax)	ite 1330, M	idland	i, Texas	79701	(Please explain	)			
w Well	Change	in Transpo	orter of:	U Outc	(r rewe explain	,			
completion $\Box$		Dry G		Change o	of Operat	or effe	ctive F	eb. 26,	1991
ange in Operator	Casinghead Gas	Conde					·		
hange of operator give name address of previous operator Be	ttis, Boyle	e & St	ovall, 1	P. O. Bo	ox 1240,	Graham,	TX 760	46	
DESCRIPTION OF WELL	AND LEASE								
ease Name		lo. Pool i	Name, Includin	g Formation		Kind of	Lease	Lea	se No.
Crow Flats 15 Fed Co	m 1		Wildcat	Morrow		State,	ederal of Fee	NM-717	66
ocation II	. 2180		N	anth .		0 -		TT	
Unit LetterH	_:2100	Feet 1	From The No	Drun Line	and66	U Fee	From The	East	Line
Section 15 Townshi	ip 16S	Rang	e 28E	, NN	лрм,	Edd	у		County
I DECICALATION OF TO AR	JEDODTED OF		AUN ALLUTTI						
I. DESIGNATION OF TRAN  ame of Authorized Transporter of Oil		OIL A	מט מאז טו		e address to wh	ich approved (	copy of this fo	rm is to be sen	u)
<u> </u>			لا	•	•	••	.,,,		•
lame of Authorized Transporter of Casin	nghead Gas	or D	ry Gas 🔲	Address (Giv	e address 10 wh	ich approved	copy of this fo	orm is so be ser	u)
well produces oil or liquids,	Unit Sec.	Twp		Ja	y connected?	When			
ve location of tanks.	1 1	l I wh	r   KRe-	is gas actual	y comboned?	) when	ľ		
this production is commingled with tha	t from any other lead	e or pool,	give comming)	ing order num	ber:				
V. COMPLETION DATA				·					
Designate Type of Completion		Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Rea	udy to Prox	d.	Total Depth	J	L	P.B.T.D.	J	
			···		. <u>.</u>				
Elevations (DF, RKB, RT, GR, etc.)	Name of Product	ing Format	tioa	Top Oil/Gas	a Pay		Tubing Dep	oth	
Perforations				.L		<del></del>	Depth Casi	ng Shoe	
								<b>0</b> -	
	<del></del>			CEMENT	ING RECO	S(D)			
HOLE SIZE	CASING	& TUBIN	IG SIZE	<u> </u>	DEPTH SET		<del> </del>	SACKS CEM	ENT
				-			<del></del>	·	
				1			<del> </del>		
V. TEST DATA AND REQU									
OIL WELL (Test must be after Date First New Oil Run To Tank	Date of Test	olume of le	oad ou and mu	_,	or exceed top a Method (Flow, )			for Juli 24 No	W3.)
	2200.702						•		
Length of Test	Tubing Pressur	ŧ		Casing Pre	आए		Choke Siz	e	
Actual Prod. During Test	Oil - Bbls.			Water - Bt	nis.		Gas- MCF		
Actual Flore During Test	OH - BUIL								
GAS WELL			<del></del>	<del></del>		<del></del>			
Actual Prod. Test - MCF/D	Leagth of Test	<del></del>		Bbls. Con	deause/MMCF		Gravity o	Condensue	<del></del>
			,			·			
Testing Method (pitot, back pr.)	Tubing Pressu	re (Shut-in	)	Casing Pri	essure (Shut-in)		Choke Su	26	
THE OPER LEGIS CO.		0) 5:	142100						
VI. OPERATOR CERTIF					OIL CC	NSER\	ATION	I DIVISI	ON
Division have been complied with	and that the informa	tion given							
is true and complete to the best of	my knowledge and t	elief.	1	Da	ate Approv	/ed	MAR	6 1981	
Hound Va	Lilla.	ial	/		~~~-	/	//	·	
Signature		7	<u>~</u>	By	- Mh	hs h	MA	a-	
Terry McCullough	i, Sr. Prode		Clerk Tide	.		BEBUINE	10 0-0-	n.a~	
Feb. 26, 1991	915/6			_    Ti	tle	PERVISC	rk. DIST	KICT II	
Date	7.70		hone No.						

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.

Form 3160-5 (November 1983) (Formerly 9-331)  DEPARTMENT OF THE INTERPREDENT OF LAND MANAGEMENT OF LAND MANA		Form approved. Budget Burcau No. 1004-(1335) Expires August 31, 1985 5. LEASE DESIGNATION AND BERIAL NO.
SUNDRY NOTICES AND REPORTS  (Do not use this form for proposals to drill or to deepen or plu  Use "APPLICATION FOR PERMIT" for suc	ON WELLS	G IF INDIAN. ALLOTTEE OR TRIBE NAME.
OIL GAS XX OTHER	31 135 m 6 6/	7. UNIT AGBREMENT NAME
2. NAME OF OFERATOR Bettis, Boyle & Stovall		8. FARM OR LEASE NAME Crow Flats "15" Fed Com
P. O. Box 1240, Graham, Texas 76046		8. WELL NO.
4. LOCATION OF WELL (Report location clearly and in accordance with See also space 17 below.) At surface	any State requirements.*	10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
2180' FNL & 660' FEL of Sec. 15  14. PERMIT NO. 15 ELEVATIONS (Show whether	r DF, RT, GR, etc.)	Sec. 15, T-18-S, R-28-E
3576.9' G		Eddy N.M.
16. Check Appropriate Box To Indicas	e Nature of Notice, Report, or C	ther Data
NOTICE OF INTENTION TO:	BUBSIQU	ENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING FRACTURE TREAT MULTIPLE COMPLETE	WATER SHUT-OFF FRACTURE TREATMENT	BEFAIRING WELL  ALTERING CASING
SHOOT OR ACIDIZE ABANDON*	SHOOTING OR ACIDIZING	ABANDON MENT*
REPAIR WELL CHANGE PLANS  Other) Completion Procedure (Premier Send) XXX	(Other)	of multiple completion on Well
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pert proposed work. If well is directionally drilled, give subsurface nent to this work.)*	ment details, and give pertinent dates, locations and mensured and true vertica	including estimated date of starting any I depths for all markers and zones perti-
<ol> <li>Move-in and rig up completion equipmen</li> <li>Perforatefrom 1,856-1,874' KB.</li> <li>Acidize as required.</li> <li>Swab/flow to clean-up and test.</li> <li>Fracture treat as with volumes/rates as</li> <li>Flow to clean-up and test.</li> <li>Shut-in well for pressure build-up.</li> <li>Install surface equipment as required.</li> <li>Run potential test.</li> </ol>		RECEIVED  DEC 13 11 10 AN  CARLL AREA
	DEC 31 '90	min no co
	O. C. D.	ω <sub>111</sub> 💍
	ARTESIA, OFFICE	
18. I hereby certify that the foregoing is true and correct		
SIGNED SIGNED SIGNED TITLE	agent	DATE 12/11/90
(This space for Federal or State office use)		, , , , , , , , , , , , , , , , , , ,
APPROVED BY TITLE TITLE TOOLDITIONS OF APPROVAL, IF ANY:		

OIL WELL 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  2. 10. Field and Fool, OR Wildcat  11. SEC., T. R., M., OR BLE. AND BURYET OR AREA  2. 2180' FNL & 660' FEL of Sec. 15  14. PERMIT NO.  15. ELEVATIONS (Show whether DF, RT, GR, etc.)  3. 3576.9' GR  2. COUNTY OR PARISE 13. STATE Eddy  N.M.	Ferm 3160-5 (November 1983) (Formerly 9-331)	BURI UNDRY NC	TICES AND	HE INTERI MANAGEMENT REPORTS &		VISION	Form appropriate Form appropriate Fundamental Form Annual Form Ann	reau No. 1004 agust 31, 1985 ation and BERI	AL NO
Bettis, Boyle & stovall  3. Andread of Operation	I. OIL CA	s MA			······································		7. UNIT AGREEME	NT NAME	<del></del>
P. O. Box 1240, Graham, Texas 76046  4. Indication of whit, (Report location clearly and in secondance with any State requirements.)  At surface  2180' FNL & 660' FEL of Sec. 15  16. FERNIT NO.  11. SULVATIONS (Show whether of NT. G. etc.)  16. Check Appropriate Box To Indicate Noture of Notice, Report, or Other Data  NOTICE OF INTESTION TO:  10. WATER SHUT-OFF  PILL OR ALTER FINING  NOTICE OF INTESTION TO:  11. SULVATIONS (Show whether of NT. G. etc.)  12. COUNTY ARABOUT IN.  N.M.  18. Check Appropriate Box To Indicate Noture of Notice, Report, or Other Data  NOTICE OF INTESTION TO:  18. WATER SHUT-OFF  PILL OR ALTER FINING  NOTICE OF INTESTION TO:  18. SULVATION OF OR ALTER FINING  NOTICE OF INTESTION TO:  18. WATER SHUT-OFF  PILL OR ALTER FINING  NOTICE OF INTESTION TO:  18. SULVATION OF OR ALTER FINING  NOTICE OF INTESTION TO:  18. SULVATION OF OR ALTER FINING  NOTICE OF INTESTION TO:  18. SULVATION OF OR ALTER FINING  NOTICE OF INTESTION TO:  18. SULVATION OF OR ALTER FINING  NOTICE OF INTESTION OF OR ALTER FINING  NOTICE OF INTESTION OF OR ALTER FINING  NOTICE OF INTESTION TO:  18. SULVATION OF OR ALTER FINING  NOTICE OF INTESTION OF OR ALTER	2. NAME OF OPERAT	OR							ed Com
10. THEO ARD TOOL, OR WILDCAT  At surface  2180' FNL & 660' FEL of Sec. 15  2180' FNL & 660' FEL of Sec. 15  11 FLEXATIONS (Show whether Df. Nt. OR. eds.)  2180' FNL & 660' FEL of Sec. 15  12 COUNTY OR PARISH 13. STATE Eddy  13. STATE Eddy  14. PERMIT NO.  15 FLEXATIONS (Show whether Df. Nt. OR. eds.)  16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  NOTICE OF INTERIOR TO:  17 STATE SHUP-OFF PRACTICE TREAT RIDGO OR ACIDITA BEFORE REPORT TREAT RIDGO OR ACIDITA BEFORE TREAT RIDGO OR ACIDITA BEFORE REPORT REPORT TREAT RIDGO OR ACIDITA BEFORE REPORT REPORT TREAT RIDGO OR ACIDITA BEFORE REPORT RE			Graham, Texas	76046			9. WELL NO.	1	***************************************
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  **Notice of Intervitor 70:  **TEST WATER SEUT-OFF**  **PRACTURE TREAT**  **AINDOT OR ACIDIED**  **REPAIR WELL**  **CHARGE PLANS**	4. LOCATION OF WES	LL (Report locatio			State requirements.*	<del></del>	Wildcat	., OR BLK. AND	
Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data  Notice of Internation to:  TEST WATER SBUT-OFF FRACTURE TREAT RIPOOT OR ACIDIZE REPAIR WELL CHANGE FLANF COUNTRY IN THE CONTINUE COUNTRY ADDRESS.  TOUGHER)  TOUGHER OF WATER SHUT-OFF REPAIR WELL CHANGE FLANF COUNTRY IN THE PROPERTY OF THE PROP	2180'	FNL-& 660'	FEL of Sec.	15			l ′		
NOTICE OF INTENTION TO:  TEST WATER BRUT-OFF FRACTURE TREAT RIPOOT OR ACIDIZE REPARK WELL (Other)  Other)  TO 9700'. Present operation: Trip. Ran DLL-MC-FDL-DSN-GR logs from 9700' to 9400'. Ran formation test log from 9700' - 8700'.  TO 9700'. Present operation: Plugging back. Details as follows: Plug No. 1 at 9400'with 60 sacks Premium Plus Neat Plug No. 2 at 8650'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. 5 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 7 at 8650'with 50 sacks Premium Plus Neat  Plug No. 8 at 2050'with 50 sacks Premium Plus Neat  Plug No. 9 at 8650'with 50 sacks Premium Plus Neat  Plug No. 9 at 8650'with 50 sacks Premium Plus Neat  Plug No. 9 at 8650'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 6 at 2050'with 50 sacks Premium Plus Neat  Plug No. 7 at 8650'with 50 sacks Premium Plus Neat  Plug No. 8 at 2050'with 50 sacks Premium Plus Neat  Plug No. 9 at 8650'with 50 sacks Premium Plus Neat  Plug No. 9 at 8650'with 50 sacks Premium Plus Neat  Plug No. 9 at 8650'with 50 sacks Premium Plus Neat  Plug No. 9 at 8650'with 50 sacks Premium Plus Neat  Plug No. 9 at 8650'with 50 sacks Plug No. 9 at 8650'with 50 with 50	14, PERMIT NO.	***	15. ELEVATIONS				1		
TEST WATER SHUT-OFF PACTURE TREAT RHOOT OR ACIDIZE REPAIR WELL (Other)  11. DEPOSITE THE TREAT CONTROL CHANGE PLANS (Other)  12. DEPOSITE THE TREATMENT SHOOTING OR ACIDIZEN (NOTE: Report results of multiple completion on Well (NOTE: Report resu	16.	Check	Appropriate Box	To Indicate N	ature of Notice, F	Report, or C	ther Data		
**************************************		NOTICE OF IN	TENTION TO:	-		травив	ENT REPORT OF:	<b></b>	
17. DESCRIBE PROPOSED OR CONFLETCH OPERATIONS (Clearly state all pertinent details, and give pertinent dates, lacded 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 "Plug No. 6 at 2050'with 30 sacks Premium Plus Neat "Plug No. 6 at 2050'with 50 sacks Premium Plus Neat "Plu	FRACTURE TREAS RHOOT OR ACIDI REPAIR WELL	r	MULTIPLE COMPLETABANDON®	!	PRACTURE TREASHOOTING OR A	CIDIZING  LY Drill Report results	ALTER ABAND ing & Plug B	ING CASING ONMENT*	\(\tau\)
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.	proposed work	TD 9700'	ectionally drilled, give	peration:	details, and give perions and measured an	rtipent dates, d true vertica L-MC-FDL	including estimate depths for all m	d date of star arkers and zon	ting any es perti-
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.  PEG 31 '90  FIRE 31 '90	11/21/90:	Plug No. Plug No. Plug No. Plug No.	1 at 9400's 2 at 8650's 3 at 7700's 4 at 6750's	with 60 sac with 30 sac with 30 sac with 30 sac	cks Premium P cks Premium P cks Premium P cks Premium P	lus Neat lus Neat lus Neat lus Neat		t/sk yiel " "	d, 14.8#
OF 31 of American Section 1988	11/22/90:	Finish p Plug No.	lugging back 6 at 2050'i	well. with 50 sad			A 27 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RLSE I	RECEIV
O. C. D. SIM S		Presentl	y waiting on	completion	DEC 31				ED
MITTER I W					O. C	OFFICE		orm C	

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_\_CONDITIONS OF APPROVAL, IF ANY:

SIGNED OLL	the foregoing is true and	correct	age set	DEC 31 '90 O. C. D. ARTESIA, OFFICE	CC. 10, 1990
I bereby certify that	the foregular lastric and	correct		O. C. D.	
			·	O. C. D.	
	·			O. C. D.	
	·			O. C. D.	
		•		DEC 31 '90	
			·	RECEIVED	
Wolfcamp (6	Notice is to AME 750') or Strawn ( s drilled to a to	(8640') completi	on to a Premie	r Sand completion	n.
pescripe proposed of proposed work. I nent to this work.)	f well is directionally drille	learly state all pertinent d. give subsurface location	details and give perting	ent dates, including estimat rue vertical depths for all n	ed data of starting one
REPAIR WELL (Other)	CHANGE PL	ANS	SHOOTING ON ACID!  (Other) TO AM  (Note: Repo		LING PERMIXXX
TEST WATER SHUT-C	MULTIPLE C		WATER SHUT-OFF FRACTUBE TREATM	ENT ALTER	RING WELL
	Check Appropriate	e Box To Indicate Na	ture of Notice, Kep	ort, or Other Data  SUBSEQUENT REPORT OF:	
		3576.9'	GR	Eddy	N.M.
.80' FNL & 660	)' FEL of Sec. 15	ATIONS (Show whether DF.	RT, GR, etc.)	Sec. 15, 1	-15-S, R-28-E
At surface	· · · · · ·			Wildcat	
	Graham, Texas Report location clearly and	76046 In accordance with any S	tate requirements.	10. FIELD AND P	OOL, OR WILDCAT
ettis, Boyle &		CARL AREA	MAN LAS	Crow Fla	ats "15" Fed Com
WELL WELL NAME OF OPERATOR	OTHER	DEC 14	11 2" "91 JAN	8. FARM OR LEAS	SE NAME
OIL GAS	S form for proposals to drill Use "APPLICATION FOR		ck to a different reservo	16.0 (ED)	P. Maria Maria
(Do not use this		ND REPORTS 'O	N WELL'S	O TE INDIAN, AL	LOTTRE OR TRIBE NAME
(Do not use this	NDRY NOTICES A	AND MANAGEMENT	OCIVED	NM-71766	· ·

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\	.ces.ber 1983)	
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#### UNITED STATES DEPARTMENT OF THE INTERIOR COther In verse side!

SUBMIT IN TRIPLICATE instructions on

rom approved.	
Budget Bureau No	1004-
Expires August 31,	1985
LEASE DESIGNATION AND	GERTAL

NM-71766

Exp	ares August	1.31,	1985
LEASE	DESIGNATION	ASI	EERIA).

IF INDIAN, ALLOTTER OR TRIBE DANIE

isure ou	No	1004-1	
s August	31.	1985	
SIGNATION	AND	ERRIA).	

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BUREAU OF LAND	MANAGEMENT
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SUNDRY NOTICES	AND REPORTS ON WELLS EVED
Do not use this form for proposals to Use "APPLICATION	drill or to deepen or plus back to a different reservolf. FOR PERMIT or such proposals.)

Use "APPLICATION FOR I	ERMIT for such pro	opösals.)			
OIL GAS XX OTHER	'90 DEC 14	an 9 20tc	5 <b>'90</b>	7. UNIT AGBREMENT NA	ME
NAME OF OPERATOR				8. FARM OR LEASE NAM	-
Bettis, Boyle & Stovall 🗸 👚		0	C. D.	Crow Flats '	'15" Fed Cor
P.O. Box 1240, Graham, Texas	76046		IA, OFFICE	9. WELL NO.	
neation or WELL (Report location clearly and in See also space 17 below.) At surface	accordance with any S	State requirements.*		Wildcat	WILDCAT
				11. SEC., T., R., M., OR B SURVEY OR AREA	LE. AND
2180' FNL & 660' FEL OF Sec.	15			Sec. 15, I-1	16-S, R-28-E
PERMIT NO. 15 ELEVAT	3576.91 GR	RT, GR. etc.)		12. COUNTY OR PARISH Eddy	13. STATE N.M.

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

NOT	ICE OF INT	ENTION TO:		SUBSEQUENT REPORT OF:	
	F1		1 17 7	F	<del></del> 3
TEST WATER SHUT-OFF	J	PULL OR ALTER CASING	1	WATER SHUT-OFF REPAIRIN	G WELL
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT	CASING
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING ABANDON	MENT*
REPAIR WELL	11	CHANGE PLANS		(Other) Weekly Drilling Reports	
Other)			}- I	Note: Report results of multiple completi- Completion or Recompletion Report and Log	on on Well form.)

SCRIBE PROPOSED OR COMPLETES 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. Deviaiton survey at 5280' misrun, at 5314' 1/4°.

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

5/90: Present depth 6640', made 70' in 2 1/2 hours. Formation dolomite and 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

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°.

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I hereby certify that the foregoing is true and correct SIGNED ALLER OF DICE	<i>A</i>	ule las
SIGNED STRUCK (S. C/1)1000		DATE 1//19/90
(This space for Federal or State office use)		HER HOR KELLOKO
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLEAck_	DATE

\*See Instructions on Reverse Side AREAD ADD NOW MEXED T

Form 3160+5 November 1983) Formerly 9+331)	UNITED STATES DEPARTMENT OF THE INTE BUREAU OF LAND MANAGEME		Expires Aug. 5. LEASE DESIGNAT NM-71766	on No. 1004-1 orst 31, 1985 ion and serial.
SUN (110 not use thi	NDRY NOTICES AND REPORTS s form for proposals to drill or to deepen or pluse "APPLICATION FOR PERMIT." for suc	S ON WELLS  ug back to a different reservoir.  b proposals.)	6 IF INDIAN, ALLO	TTEE OR TRIBE SAME
GP. GAS WELL WELL 2. NAME OF OPERATOR	XX OTHER	RECEIVED	7. UNIT AGREEMEN. 8. FARM OR LEASE	
Bettis, Boy	le <u>&amp; Stovall</u>	חבר ב אמם	Crow Flats	s "15" Fed Com
P. O. Box 12 Location of Well to See also space 17 be At surface	240, Graham, Texas 76046 Report location clearly and in accordance with clow.)	DEC 5 90  and State requirements.*  O. C. D.  ARIESIA, OFFICE	l 10. FIELD AND POO Wildcat 11. SEC., T., B., M., BURVEY OR A	OR BLR. AND
2180' FNL &	660' FEL of Sec. 15		Sec. 15,	T-16-S, R-28-E
14. PERMIT NO.	15 ELEVATIONS (Show whether		12. COUNTY OR PAI	N.M.
16	Check Appropriate Box To Indicate		····	
	NOTICE OF INTENTION TO:		UENT REPORT OF:	
TEST WATER SHUT- FRACTURE TREAT SHOOT OR ACIDIZE	OFF > PULL OR ALTER CASING	WATER SHUT-OFF FRACTURE TREATMENT	ALTERIN	NG WELL  G CANING
REPAIR WELL -(1)ther) 17 (c) SCRIBE PROPOSED	OR COMPLETED OPERATIONS (Clearly state all perfit well is directionally drilled, give subsurface	(Other) Weekly Dri  (Note: Report result Completion or Reconstitutions and give pertinent dates locations and measured and true vertices.	s of multiple completed	fon on Well g form.)
/14/90: Drilling a /15/90: Drilling a Deviation s /16/90: Drilling a /17/90: Present de Present op /18/90: Present de Present op	t 8353', made 189' in 13 hours. For t 8575', made 222' in 22 hours. For at 8972', made 397' in 23 hours. For survey at 8736' 1°. t 9212', made 240' in 19 hours. For oth 9347', made 135' in 13 hours. For peration washing to bottom. Deviate the 9600', made 253' in 21 hours. For eration tripping. ade 100' in 9 1/2 hours. Formation logging. Deviation survey at 9700'	mation shale and lime.  mation shale and lime.  mation shale and lime.  commation shale and lime.  cion survey at 9347' l  commation shale and lime.  shale and lime. Present	E C	RECEIVED No. 130
SIGNED ALL	t the foregoing is true and correct	agent	DATE	11/19/90
This space for Fed	eral or State office use)	,		
CONDITIONS OF A	PPROVAL. IF ANY:		DATE	

#### 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 psiq

INITIAL FLOW:

19 - 19 psiq

16 - 16 psig (30 minutes)

INITIAL SHUT-IN:

167 psiq

101 psiq (60 minutes)

FINAL FLOW:

41 - 41 psig

34 - 34 psig (60 minutes)

FINAL SHUT-IN:

167 psig

101 psig (120 minutes)

FINAL HYDROSTATIC:

3012 psiq

2973 psiq

Bottom hole Temperature 114°F.

OIL SAS XX OTHER		Hoy 5	11 42 MM	*9U - 7	. UNIT AGREEMENT N	AME	5
2. NAME OF OPERATOR  Bettis, Boyle & Stove	7 OIL CONSER	CATOIVIS AREA		ER\$		wr "15" Fed Com	1
P. O. Box 1240, Grahe 1. Location of Well (Report location of Well (Rep	am, Texas 7604601119 on clearly and in accordance with a	ny State recupi	ZEIVED	10	WELL NO.  1 0. FIELD AND POOL.  Wildcat 1. SEC., T., E., M., OR		
2180' FNL & 660' FEL	of Sec. 15		Ma	,   9	Bec. 15, T-1	A	
14. PERMIT NO.	15 ELEVATIONS (Show whether		O.C.	OFFICE I	2. COUNTY OR PARIS		
16. Check	Appropriate Box To Indicate				_		
NOTICE OF 12	NTENTION TO:	ı		SUBSEQUENT	T EEFORT OF:		
TEST WATER SHUT-OFF FRACTUBE TREAT SHOOT OR ACIDIZE REPAIR WELL (Older)	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS	PRAC	E SHUT-OFF  TING OR ACIDS  FOR WEEKLY I  (NOTE: Repo	ent	REPAIRING ALTERING ABANDONMI & Int. Casing f multiple completion on Report and Log f	CASING ENT*  Rtp. XXX	
17. DESCRIBE PROPOSED OR COMPLETED proposed work. If well is dir nent to this work.) ?	OPERATIONS (Clearly State all pertinectionally drilled, give subsurface le	nent details, an ocations and me	d give pertine	ent dates, luc	luding estimated da	te of starting any	
survey at 937' 1 10/25/90: Present depth: Present operation 10/26/90: Present depth 20 survey at 2000' CASING REPORT: Ran 48 joints of Cemented with 40 Premium Plus with cement at 720'. Halliburton neat 10/27/90: Drilling at 2022 hour cement, 3 1 cement. Pumped surface. Plug d 10/28/90: Drilling at 2504 10/29/90: Drilling at 3373	1', made 626' in 19 1/2 hours 1/4°, at 1411' 1°. 2000', made 519' in 19 hours 1/4°.  2000'. Present operation: 1/4°.  6 8 5/8" 32#/ft., set at 20 00 sacks Halliburton Lite with 2% CACL2. Waited 8 hours Ran 1" and tagged cement with 2% CACL2, did not city, made 22' in 2 hours. From 10 sacks Premium with 2% lown at 10:30 AM. BLM on 1 1', made 481' in 21 hours. 1°, made 869' in 22 hours. 1°, at 3013' 3/4°.	ars. Formatiars to run: Waiting on o  OO'. Guide with 18% sald s ran temperat 795'. Carculate ceme cormation lin ple up and r  CACL2. Circulation duri	ion anhydri intermediat cement and shoe, floa t, tailed i cature surv emented wit ent. ne. nipple down culated 42 ing 1". lolomite.	ite and sate casing.  1". Deviant collar.  in with 200 yey, Top or  th 400 sack	lt. ation O sacks f ks d 1" ent to	JRD	
				(vi C	OV 0.5 1990		
18. I hereby certify that the foregoing	ng is true and correct  Solution TITLE	age	nt	<u> </u>	DATE //	12/90	
(This space for Federal or State	office use)	<del></del>					
APPROVED BYCONDITIONS OF APPROVAL, I	TITLE		<del></del>		DATE		

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.

BUREAU OF LAND MA	NAGEMENT	=1.155	NM-71766	
SUNDRY NOTICES AND RI  (Do not use this form for proposals to drill or to de  Use "APPLICATION FOR PERMIT	EPORTS ON V	VELLS  a different reservoir.	6 IF INDIAN, ALLOTTE	E OR TRIBE NAME.
OSE APPLICATION FOR I DAMIN	Nov 5 1	1 42 AH '90	7. UNIT AGREEMENT N	
Bettis, Boyle & Stovall 3. ADDRESS OF OPERATOR	CARL AREA:	RECEIVED	Crow Flats "	
P. O. Box 1240, Graham, Texas 7604  1. LOCATION OF WELL (Report location clearly and in accord See also space 17 below.)  At surface  2180' FNL & 660' FEL of Sec. 15	6 ance with any State re	Ĥ'n	Uildeat  11. SEC., T., R., M., OR SURVEY OR AREA	BLE, AND
	Show whether DF, RT, GR,		Sec. 15, T-1	
4	3576.9 GR	etc.)	Eddy	NM
16. Check Appropriate Box To	o Indicate Nature	of Notice, Report, or	Other Data	
NOTICE OF INTENTION TO:	)	SUBS	EQUENT REPORT OF:	
PULL OR ALTER CASE  FRACTURE TREAT  SHOOT OR ACIDIZE  REPAIR WELL  (Other)  17. DESCRIBE PROPOSED OR COMPLETES OPERATIONS (Clearly St. proposed work. If well is directionally drilled. give a neat to this work.)*  10/30/90: Drilling at 3900', made 527' in 2% at 3496' misrun, at 3527' 1/4°.  10/31/90: Drilling at 4412', made 412' in 2% at 4002' 3/4°.  11/1/90: Present depth 4826', made 414' in Present operation: Trip for new to 3/4°.  11-2-90: Drilling at 5210', made 384' in 18	ate all perfinent detail subsurface locations and 2 hours. Formation 19 hours. Formation 19 hours. Formation 19 hours. Formation 19 hours.	Completion or Recoils. and give pertinent dated and true version dolomite. Deviation dolomite. Deviation dolomite. Deviation dolomite and structure at 4498' 1/29	elts of multiple completion upletion Report and Log for test, including estimated datectal depths for all market estion survey eation survey eation survey eation, at 48261	On Well string any
18. I bereby certify that the foregoing is true and correct  SIGNED (This space for Federal or State office use)  APPROVED BY	TITLE	pert		2/90
CONDITIONS OF APPROVAL, IF ANY:			VAID	

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.

Comments y sort	Form approved.  Budget Burcan No. 1004-0135  Expires August 31, 1985  5. 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.)	NM-71766  6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL CAS XX OTHER ON DIVISION OCT ZIL 10 35 AM '90	7. UNIT AGREEMENT NAME
CARL CARL	8. FARM OR LEASE NAME Crow Flats "15" Fed Com
Bettis, Boyle & Stovall VED AREA HE AREA HE	9. Walt NO.
P. O. Box 1240, Grahams Texas 76046	1
See also space 17 belock)	10. FIELD AND POOL, OR WILDCAT
At nurface	Wildcat
	SUBVET OR AREA
2180' FNL & 660' FEL of Sec. 15 NOV 1 90	Sec.15. T-16-S, R-28-E
C. C. D.	12. COUNTY OR PARISH 13. STATE
3576.9 GR ARTESIA, OFFICE	Eddy   NM
18. Check Appropriate Box To Indicate Nature of Notice, Report, or Ot	her Data
NOTICE OF INTENTION TO:	NT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CASING
REPAIR WELL CHANGE PLANS (Other) Drilling Rep	oort & Surf. Csng. XX
(NOTE: Report results of	f multiple completion on Well tion Report and Log form.)
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°.	
Ah	TUT FOR MICORD
	OCT 2 91990
and the second of the second o	MO, NEW MESICO
18. I hereby certify that the foregoing is true and correct	
SIGNED alley 8. 6) on the agent	DATE 10/2/3/90
(This space for Federal or State office use)	
APPROVED BY TITLE TOTAL CONDITIONS OF APPROVAL, IF ANY:	DATE

Form 3160-3 (November 1983) (formerly 9-331C)	DEPARTMENT	OF THE INTEL	RIOR		Form approved. Budget Bureau Expires August	31, 1985
DIVISION DIVISION	BUREAU OF	LAND MANAGEMEN	VT TIM COSTO		NM-71766	
NSEAPPLICATION	N FOR PERMIT 1	O DRILL, DEEP	EN, OR PLUG E	BACK	G. IF INDIAN, ALLOTTES	OR TRIBE NAME
TALTYPE OF WORK	HI 🗵	DEEPEN	PLUG BA		7. UNIT AGREEMENT N	AMB
Of Sir C	AB X OTHER		INGLE   RECEIVE	€D□	S. FARM OR LEADE HAS	
2. NAME OF OPERATOR					Crow Flats	ed Com
Bettis, Boyle	& Stovall V		SEP 27	<u>'9n</u>	9. WELL NO.	
	O, Graham, Texas	: 76046 915	-683.5571	00	10. FIELD AND POOL, C	N WILDCAY
4. LOCATION OF WALL (R	leport location clearly and			<del>5.</del>	X Wildcat	
Atsuriace	60' FEL, Section	. 15 T16C D20E	ARTESIA, OF	FICE	11. SEC., T., R., M., OR AND SURVEY OR AN	
At proposed prod. zor	ae -	·	\H. H		AND BURVET OR A	· · ·
	60' FEL, Section		Mil	·· · · · · · · · · · · · · · · · · · ·	Sec. 15, T16	
		LEST TOWN OR POST OFFIC	· <b>6 -</b>		12. COUNTY OR PARISH	1
15. DISTANCE FROM PROP		l 16. N	O. OF ACRES IN LEASE	17. NO	OF ACRES ASSIGNED	NM
LOCATION TO NEARER PROPERTY OR LEASE	LINE, FT.	660'		70 7	THIS WELL	
(Also to nearest dr. 18. DISTANCE FROM PRO	COSED LOCATION		480 ROPOSED DEPTH	_ [	320 ART OR CABLE TOOLS	
TO NEAREST WELL, I OR APPLIED FOR, ON TH	PRILLING, COMPLETED,	N.A.	96001		Rotary	
21. ELEVATIONS (Show wh					22. APPROX. DATE WO	RE WILL START
		3576.9' GR			10-15-90	
23.		PROPOSED CASING AN	D CEMENTING PROGRA	м		<del></del>
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF CEME	NT
17 1/2"	13 3/8"	54.5	350'	325	sx CIRCULATE	
11"	8 5/8"	24/32	2000'		sx CIRCULATE	
7 7/8''	4 1/2"	11.6/13.5	9600'	400	sx (see stips	)
Mud Program:	0 - 350' 350 - 2000 2000 - 7600 7600 - 9600	FW Spud mud FW (Brine) FW (Brine) Brine, gel, Starch	MW MW Drispac,	8.4 - 8.5 - 8.5 - 8.8 -	10.0 CARL AREA E	5 <u>2</u> 2
BOP Program:	See Exhibit "	Ε".			ω H	CEIVED
	APPROVAL SUBJECT GENERAL REQUIRE SPECIAL STIPULAT ATTACHED	EMENTS AND			AN '90 CERS	Ü
IN ABOVE SPACE PESCRIBI zone. If proposal is to preventer program, if an 24.	F PROPOSED PROGRAM: If I drill or deepen directions	oroposal is to deepen or p lly, give pertinent data o	piug back, give data on p on subsurface locations a	resent produced measure	ductive sone and propose ed and true vertical depti	d new productive ns. Give blowout
BIGNED MATTY	Maria State	TITLE	Agent		DATE 8-20	9-90
(This space for Fede	eral or State office used					
PERMIT No.			APPROVAL DATE		· · · · · · · · · · · · · · · · · · ·	
APPROVED BY CONDITIONS OF APPROV	are Stran	4 Miles	で <del>- 発音は<b>さAD-</b>和ESOURCE)に</del>	i., J.	DATE 92	490

Form 3160-3

District Office Per Lesse - 3 cons

#### State of New Mexico Energy, Minerals and Natural Resources Department

RONALD & EIDSON,

3239

DISTRICT I P.O. Box 1980, Hobbs, NM 48240

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

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

1000 Rio Brazos Rd., Aztec, NM 87410

1320

1650

1980 2310 2640

2000

1500

1000

500

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section BETTIS BOYLE & STOVALL Crow Flats Federal 15 1 Unit Letter Section Township County 15 16 South 28 East Eddy **NMPM** Actual Footage Location of Well: 2180 North feet from the East feet from the Ground level Elev. Producing Formation MOTTOW WILDCAT 3576.9 320 1. Outline the acreage dedicated to the subject well by colored peacil or hackure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? If answer is "yes" type of consolidation COMMUNITIZATION Yes ☐ No er is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. 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 est of my browledge and belief. SANTA FE ENERGY 50% BETTIS BROS VNC 25% 3576.8 Collins & WARE 660 -<sup>i</sup>3579. 577.9 SURVEYOR CERTIFICATION I hereby certify that the well location she SANTA FE ENERGY 50% 11:11 m this plat was plotted from field notes of 71710 BETTIS BROS INC 25% Collins & WARK 25% correct to the best of my knowledge and belief. August 6, 1990 Signature & Seal of Professional Surveyor 676

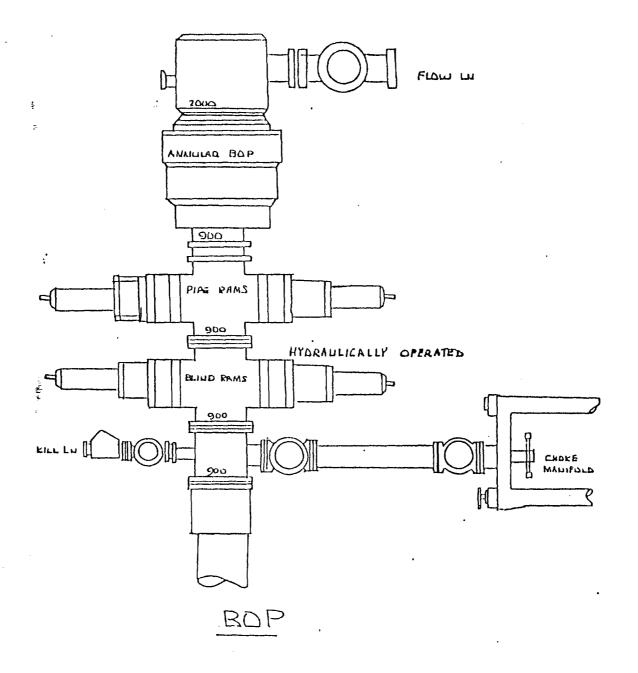


EXHIBIT "E"
BETTIS BOYLE & STOVALL
CROW FLATS FED COM "15" NO. 1
2180' FNL & 660' FEL SEC. 21, T16S, R28E
BOP Equipment Schematic

IBIT E



### Technical Information

## Drilling Fluids Recommendations

		Date.	July	31, 1989	9	
Company	Bettis Brothers	Location	Sec 15,	r165,R28	ВЕ	
Well Name	Eddy County Prospect	County	Eddy	State	ИМ	

#### CASING PROGRAM

13 3/8" @ 400'

8 5/8" @ 2,0001

TD @ 9,6001

RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	На	
0-400′	8.4-9.0	32-38	NC	10.0	

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.

400'-2000'

8.5-10.5 32-34

NC:

9.0 - 10.0

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.

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.

EXHIBIT "F"
BETTIS BOYLE & STOVALL
CROW FLATS FED COM "15" NO. 1
2180' FNL & 660' FEL SEC. 21, T16S, R28E
Mud Program



# Mapark Technical Information

Drilling Fluids
Recommendations

		Date	July	.31, 19	989	<del></del>
Company	Bettis Brothers	Location	Sec 15	,T16S,F	38E	
Vell Name	Eddy County Prospect	County	Eddy	State	NM	<del></del>

#### RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	На	
20001-76001	8.4	28-30	NC	10.0-10.5	5

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.

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.

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.

76001-96001 8.8-9.2 32-36 10-12 9.0-9.5

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



# Technical Information

Drilling Fluids
Recommendations

	Date July 31, 1989
Company <u>Bettis Brothers</u>	Location Sec 15, T16S, R28E
Well Name Eddy County Prospect	County Eddy State NM

#### RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	Нд		
Chlorid	e for add	ed shale	inhibition.	Add pre-	hydrated Milgel	

slurry to supplement polymers for viscosity.

NOTE: KCL muds will exhibit slow increase in chlorides (when

NOTE: KCL muds will exhibit slow increase in chlorides (when potassium base exchange is occurring if the same concentration of K+ (potassium) is maintained.

With property adjustments as dictated by hole conditions, this fluid should provide excellent properties for drilling, testing, logging, and casing operations.

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WRS COMPLETION REPORT
COMPLETIONS SEC 15 TWP 169
PI# 30-T-0002 08/09/91 30-015-26490-0000
                                    16S RGE
                                              28E
                * 2180FNL 660FEL SEC
NMEX
                                           SE NE
         EDDY
STATE COUNTY FOOTAGE
                                            WF WSD
BETTIS-BOYLE-STOVALL
OPERATOR WELL CLASS INIT WEIN
CROW FLATS "15" FEDERAL COM
WELL NO.
3601KB 3577GR
                                  UNNAMED
OPER ELEV
                          API 30-015-26490-0000
LEASE NO PERMIT OR WELL I.D. NO.
 10/20/1990 02/14/1991 ROTARY VERT
SPUD DATE TYPE TOOL HOLE TYPE
9600 MORROW EXETER DRLG 44 RIG SUB 23
PROJ. DEPTH PROJ. FORM CONTRACTOR
            PB 1940 FM/TD CHESTER
DTD 9700
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 POTENTIAL
IPF
              288 MCFD
                                     11/64CK
                                               1HRS
                         36/IT 1856- 1874
                     W/
PREMIER PERF
                    840
               SITP
         @ 1855FT
                         BHT 80F
           238MCFD TP 766 BHFP 798
280MCFD TP 710 BHFP 738
256MCFD TP 524 BHFP 541
288MCFD TP 501 BHFP 516
FPCAOF 359MCFD
 8/64CK
9/64CK
                                738
541
 10/64CK
 11/64CK
                                GOR DRY
GAS GTY
         .803
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Y Petroleum Information (U) Corporation

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
                       CROW FLATS "15" FEDERAL COM
                              INITIAL POTENTIAL
P/L CON NONE
                        /RESERVOIR
/PREMIER SD
1ST THRU 4TH PT TEST IN 60 MINS
TYPE FORMATION LTH TOP DEPTH/SUB BSE DEPTH/SUB
                                      3185
2478
1693
LOG
         YATES
                              416
                            1123
1908
LOG
         QUEEN
         SM ANDRS
GLORIETA
 LOG
                                       241
                            3360
LOG
                            4618
5362
LOG
        TUBB
                                    -1017
                                    -1761
 LOG
         ABO
        WOLFCAMP
                                    -3167
 LOG
                            6768
        CISCO
CANYON
STRAWN
LOG
                             7692
                                    -4091
LOG
                            8064
                            8651
LOG
                                    -5465
-5713
LOG
         ATOKA
                            9066
LOG
                            9314
        MORROW
LOG
        CHESTER
                            9418
SUBSEA MEASUREMENTS FROM KB
                     FORMATION TEST DATA
                  6521- 6641 ABO L
FT MUD 2600.0 CC MUD
30M IFP 19 FFP 19
IFP 41 FFP 41 BHT
H FSIP 167 2H IHP
WS 34260 PPM CL
REC 60.0 FT MUD
INIT OP 30M IFP
FINAL OP 1H IFP
                                                     114F
3012 FHP
ISIP 167 1H
                     PRODUCTION TEST DATA
PTF
                     500 MCFD
                                                        40/64CK
                                                                    24HRS
PREMIER PERF
PERF 1856- 1874
ACID 1856- 1874
TP 35
                                                1856- 1874
                           2700GALS
FM - PREMIER SD
                     359 MCFD
                                                                     24HRS
PREMIER PERF
                                                1856- 1874
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CONTINUED

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COMPLETIONS SEC 15 TWP 16S PI# 30-T-0002 08/09/91 30-015-26490-0000
                                                                                                                             28E
                                                                                                    16S RGE
                                                                                                                         PAGE 3
BETTIS-BOYLE-STOVALL
                                                                                                                          WF
                                                                                                                                 WSD
                                          CROW FLATS "15" FEDERAL COM
                                       PRODUCTION TEST DATA
FM - PREMIER SD
                                     LOGS AND SURVEYS /INTERVAL, TYPE/
LOGS
                                                                                                                                 DENL
LOGS
                                          SDBL
                     DRILLING PROGRESS DETAILS
                               BETTIS-BOYLE-STOVALL
BOX 1240
                               GRAHAM, TX 76046
817-549-0780
LOC/1990/
             817-549-0780
LOC/1990/
RURT
DRLG 855
DRLG 3900
DRLG 6640
DRLG 8164
9700 TD, RNG LOGS
9700 TD, WOCT

PB OH TO 1940
9700 TD, PB 1940, SI EVAL
9700 TD, PB 1940, WOPT
9700 TD, PB 1940, WOPT
9700 TD, PB 1940, WO STATE FORMS
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
PREMIER SD DISCOVERY - SHALLOWER POOL
09/25
10/17
10/23
10/30
10/30
11/06
11/13
11/20
11/30
11/30
02/01
02/08
03/08
08/02
08/02
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