STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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BRUCE KING GOVERNOR

March 30, 1994

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 627-5800

ANITA LOCKWOOD CABINET SECRETARY

> Rachael Exploration Corporation c/o Terra Energy Ltd. 1503 N. Garfield Rd. Traverse City, Michigan 49684

Attention: Craig J. Tester

Administrative Order DD-91

Dear Mr. Tester:

Under the provisions of General Rules 111 (C), (D) and (E) and 104 (F), Terra Energy Ltd. on behalf of the operator Rachael Exploration Corporation made application to the New Mexico Oil Conservation Division on March 14, 1994, for authorization to re-enter the existing E. P. Operating Company Federal "9" Well No. 1 and recomplete said well by side tracking off of the vertical wellbore and directionally drill to a pre-determined bottom-hole location in order to further test the Devonian formation for oil production, Chaves County, New Mexico.

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rules 111 (D) and (E) and 104 (F) of the Division General Rules and Regulations;
- (2) The E. P. Operating Company Federal "9" Well No. 1 (API No. 30-005-62293) was originally drilled in 1985 to a total depth of 9600 feet to test the Devonian formation for oil at a standard oil well location 1980 feet from the South line and 660 feet from the West line (Unit L) of Section 9, Township 13 South, Range 29 East, NMPM, Chaves County, New Mexico. Said well subsequently tested "dry" and was properly plugged and abandoned;
- (3) The applicant/operator proposes to kick off vertical at a depth of approximately 7600 feet in a northeasterly direction and drill in such a manner as to bottom in the Devonian formation at a true vertical depth of approximately 9500 feet within 50 feet of a target point located 2360 feet from the South line and 245 feet from the West line of said Section 9;

(4) The NW/4 SW/4 (Unit L) of said Section 9 is to be dedicated to said well forming a standard 40-acre oil spacing and proration unit;

Administrative Order DD-91 Rachael Exploration Corporation March 30, 1994 Page No. 2

- (5) Said test is <u>not</u> within a mile of any designated Devonian oil pool and is therefore classified as a wildcat oil well; therefore, said re-completion is subject to the Division's General Rules and Regulations governing wildcat oil well locations [see Rule 104.B(1)(a)] which requires wells to be no closer than 330 feet from the outer boundary of its designated 40-acre, more or less, drilling tract;
- (6) The proposed sidetracted bottom-hole recompletion is therefore considered to be unorthodox;
- (7) All of said Section 9 and the E/2 of off-setting Section 8 is included within a single lease issued by the U. S. Bureau of Land Management as Lease No. NM-54287; therefore, there are no off-set operators;
- (8) This application has met all the necessary requirements under Division General Rule 104.F and 111 and approval of such will serve to prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells and will otherwise prevent waste and protect correlative rights;
- (9) The operator should be required to determine the subsurface location of the kick-off point of the Federal "9" Well No. 1 prior to directional drilling and should subsequently be required to conduct an accurate wellbore survey during or upon completion of directional drilling operations from the kick-off point to total depth to determine its true depth and course; and,
- (10) The operator should be required to notify the supervisor of the Artesia District Office of the Division of the date and time said directional surveys are to be conducted so that they may be witnessed. The applicant should further be required to provide a copy of said directional surveys to the Santa Fe and Artesia District Offices of the Division upon said re-completion.

IT IS THEREFORE ORDERED THAT:

(1) Rachael Exploration Corporation, is hereby authorized to re-enter the existing E. P. Operating Company Federal "9" Well No. 1, located at a standard surface oil well location, 1980 feet from the South line and 660 feet from the West line (Unit L) of Section 9, Township 13 South, Range 29 East, NMPM, Chaves County, New Mexico, and recomplete said well by side tracking off of the vertical wellbore and directionally drill in such a manner as to bottom in the Devonian formation at a true vertical depth of approximately 9500 feet within 50 feet of a target point located 2360 feet from the South line and 245 feet from the West line of said Section 9, being an unorthodox bottom-hole oil well location for said formation.

Administrative Order DD-91 Rachael Exploration Corporation March 30, 1994 Page No. 3

<u>PROVIDED HOWEVER THAT</u> prior to commencing directional drilling operations into said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

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<u>PROVIDED HOWEVER THAT</u> during or upon completion of said directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Artesia district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Artesia offices of the Division upon completion.

(3) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

(4) The NW/4 SW/4 (Unit L) of said Section 9 shall be dedicated to the well forming a standard 40-acre oil spacing and proration unit.

(5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

by mes lliam WILLIAM J. LEMAY

Director

SEAL

WJL/MES/amg

cc: Oil Conservation Division - Artesia

U. S. Bureau of Land Management - Carlsbad

E-Mailed as 1000. DD

Rec. 3-14 Released 3-30

March 30, 1994

Rachael Exploration Corporationc/o Terra Energy Ltd.1503 N. Garfield Rd.Traverse City, Michigan 49684

Attention: Craig J. Tester

Administrative Order DD-*9

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The Division Director Finds That:

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- (3) The applicant/operator proposes to kick off vertical at a depth of approximately 7600 feet in a northeasterly direction and drill in such a manner as to bottom in the Devonian formation at a true vertical depth of approximately 9500 feet within 50 feet of a target point located 2360 feet from the South line and 245 feet from the West line of said Section 9;

Administrative Order DD-* March 30, 1994 Page No. 2

- (4) The NW/4 SW/4 (Unit L) of said Section 9 is to be dedicated to said well forming a standard 40-acre oil spacing and proration unit;
- (5) Said test is <u>not</u> within a mile of any designated Devonian oil pool and is therefore classified as a wildcat oil well; therefore, said re-completion is subject to the Division's General Rules and Regulations governing wildcat oil well locations [see Rule 104.B(1)(a)] which requires wells to be no closer than 330 feet from the outer boundary of its designated 40-acre, more or less, drilling tract;
- (6) The proposed sidetracted bottom-hole recompletion is therefore considered to be unorthodox;
- (7) All of said Section 9 and the E/2 of off-setting Section 8 is included within a single lease issued by the U. S. Bureau of Land Management as Lease No. NM-54287; therefore, there are no off-set operators;
- (8) This application has met all the necessary requirements under Division General Rule 104.F and 111 and approval of such will serve to prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells and will otherwise prevent waste and protect correlative rights;
- (9) The operator should be required to determine the subsurface location of the kickoff point of the Federal "9" Well No. 1 prior to directional drilling and should subsequently be required to conduct an accurate wellbore survey during or upon completion of directional drilling operations from the kick-off point to total depth to determine its true depth and course; and,
- (10) The operator should be required to notify the supervisor of the Artesia District Office of the Division of the date and time said directional surveys are to be conducted so that they may be witnessed. The applicant should further be required to provide a copy of said directional surveys to the Santa Fe and Artesia District Offices of the Division upon said re-completion.

IT IS THEREFORE ORDERED THAT:

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a target point located 2360 feet from the South line and 245 feet from the West line of said Section 9, being an unorthodox bottom-hole oil well location for said formation.

<u>PROVIDED HOWEVER THAT</u> prior to commencing directional drilling operations into said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

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(2) The applicant shall notify the supervisor of the Artesia district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Artesia offices of the Division upon completion.

(3) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

(4) The NW/4 SW/4 (Unit L) of said Section 9 shall be dedicated to the well forming a standard 40-acre oil spacing and proration unit.

(5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY Director

SEAL

WJL/MES/amg

cc: Oil Conservation Division - Artesia U. S. Bureau of Land Management - Carlsbad



TERRA ENERGY LTD

1503 North Garfield Road Traverse City, Michigan 49684 (616) 941-7919 FAX: (616) 941-3426 OIL CONSERVE ON DIVISION. RECEIVED

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1. S. S. M. S. M

OIL & GAS EXPLORATION AND PRODUCTION

March 14, 1994

Mr. Michael Stogner N.M.O.C.C. P. O. Box 2088 Santa Fe, New Mexico 87501

Re: Rachael Federal 9 No. 1 Well Section 9, T13S, R29E Chaves County, New Mexico

Dear Mr. Stogner:

Please find enclosed information concerning the geological picture, and lease situation concerning the referenced permit application. This information is being sent to show just cause for drilling the proposed well at a non-standard spacing location. The geological map is a contour map on the top of the Devonian horizon. Wellbore date was incorporated into a 3D seismic shoot to come up with the structure to be evaluated by the test well. Shown on this map are the old dry hole to be re-entered and the proposed bottom hole location for this application.

The E/2 of Section 8 and all of Section 9 are part of a large lease from the Bureau of Land Management. The lease serial number is NM-54287. The proposed unit and all offsetting acreage is therefore under one lease and one common owner.

If any additional information is needed, please feel free to call me at (616) 941-7919.

Sincerely,

TERRA ENERGY LTD.

Enclosures

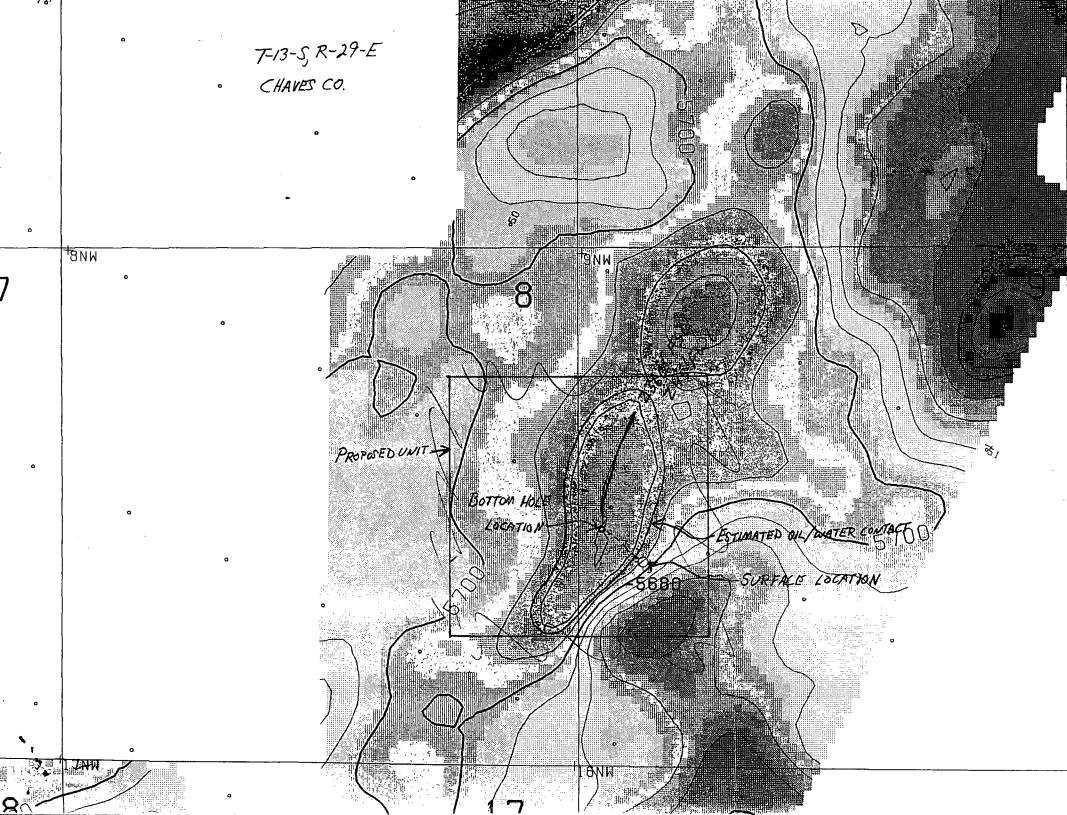
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Craig J. Tester Vice President Exploration & Production

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INTENTIONAL OMISSIONS

The following document(s) have been intentionally omitted from this file due to the indicated reasons.

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DESCRIPTION OF OMITTED DOCUMENTS

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Case No. 9539 Order No. R-8820 Page No. 7

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY Director

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FROM TERRA ENERGY LTD.

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TERRA ENERGY LTD

1503 North Garfield Road Traverse City, Michigan 49684 (616) 941-7919

> OIL & GAS EXPLORATION AND PRODUCTION

FACSIMILE COVER SHEET

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TO: MR MICHAEL STOGNER
FROM: CRAIG TESTER
DATE: 3/24/94
OF 2 PAGES (including cover page)
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CLIENT NAME:
FAX NUMBER:
PLEASE CALL: (616) 941-7919 IF UNABLE TO READ FAX
FAX NUMBERS:
(616) 941-3426 (Accounting/Revenue/Land)
(616) 929-0471 (Drilling/Production/Exploration/Geology)

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		Corporation		616/941-7	919	9. AN WELLHO.	
1503 N. Ga		Trave	rse Cit	ty. MI 496	384	A 10. FULD AND FOO	, OR WILPCAT
		rly and in accordance wi				Wildcat	
1	980' FSL &	660' FWL				11. SHC., Y., B., M., AND AURYRY OF	or vin. . Adra
At proposed prod. so:	2360'	FSL & 245' F	'WL			Sec. 9-Ti	35-R29E
		M NEALBOT TOWN OF POI	T OFFICE			12. COUNTY OR PAR	New Mex
30 NE of H	_	M	1 18 NO. OF	ACRES IN LEADE	17. 10. 0	Chaves	HEW MEA.
LOCATION TO NEARER	it Ling. pp.	2360 '		2040		His WALL 40	
(Also to Bearest dri DISTANCE FROM FRO TO NEAREST WALL,	FORED LOCATION*		19. PROPORT		20. ROTA	Rotary	· · · · · · · · · · · · · · · · · · ·
OR APPLIED FOR, ON TO	THE LOADE, PT.	N/A		2,000'			WORE WILL START
BLEVATIONS (Show w	Wher DF, NT, GR,	3777.5 G	L			April 15	
	and the second	PROPOSED CAR	ING AND CEI	MENTING PROGRA	AM		· · ·
sizz or hous	ORADIL NEE OF CA	······································	/00T	BETTING DEPTH		QUANTITY OF C	
$\frac{17 \ 1/2"}{11"}$		-55 24#		<u>330'</u> 2300'	<u> Circ</u>	<u>320 sx "C</u> sx Lite &	' existin "H" exis
7 7/8"	5 1/2" J-	-55 17 & 2		12.000'		sx "H" (500	and the second se
Mud Progra	• ·	.80 1 6		Mud Wt.	Vis	. W/L Co	ntrol
·	<u>i nani</u>	ine w/gel to clea		9.0 ppg	28		
5600' - 12	.000': Cut bri	ine w/poly & star	•ch: 8.	8-9.2 ppg	36-3	8 W/L cont.	1015 cc
installed o 7 7/8" bit. "E". Note: Prop between 75	i wp 11" Scha on the 13 3/8 BOP will be pose to re-en 500' and 8000'	ffer Type LWS B(casing. Casing used as a 3000 ter well. drill ou . Drilling will s .11 be installed.	and BOP psi wp sy it plugs a	will be teste stem and will and will direc	ed before 1 be test ctional d	e drilling out ted daily. See drill à new hol	with the exhibit e
NOVE SPACE DESCRI	BB PROPOSED PROG Itinent data on subsurfac	RAM: If proposal is to deeper to locations and measured and	, give data on p true vertical dep	resent productive zon the. Give blowout prev	e and propose water program	d new productive zone. , if any.	lf proposal is to drill
BIANED BUCK	Ege R. D	meth		t for: ael Expl.	Corp.	Mar Date	ch 4, 1994
		\		• -			
Post-it" Fax Note	7671 De	ate 3/24/94 pages	1	OVAL DATH			
To Mike Stogn	er Fr	• George R. Smi	· · · · · · · · · · · · · · · · · · ·	some rights in the subject	t lesse which w	vende antitie the applicant	io conduct operations il
the second secon	and the second	• • • • • • • • • • • • • • • • • • •					
Confiden	1	Energy Adm Srv		4			
Phone # 827-581		Energy Adm Srv	19 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and from the			
	1Ph		Press Marine Inc.	No objects		DATE	

MAR-24-94 THU 14:35

5,0,5,23 5702 A

P.01

MAR-14-194 - MON 17:37 TERRA FAX NO. 16169413426 P. 01/03
TERRA ENERGY LTD
1593 North Gardield Boad

CONTRACT FOR LEWISCH

1503 North Garlield Road Traverse City, Michigan 49684 (616) 941-7919

a ferrar for the second and the second

OIL & GAS EXPLORATION AND PRODUCTION

FACSIMILE COVER SHEET

Stogner TO: 25 ter FROM: 19 DATE: 3 **O**F PAGES (including cover page) COMMENTS: mailed The genals CLIENT NAME: .. 8 5 505 27. FAX NUMBER:

PLEASE CALL (616) 941-7919 IF UNABLE TO READ FAX

FAX NO. 16169413426





TERRA ENERGY LTD

Section Com

1503 North Garfield Road Traverse City, Michigan 49684 (616) 941-7919 FAX: (616) 941-3426

- March 14, 1994

OIL & GAS EXPLORATION AND PRODUCTION

Mr. Michael Stogner N.M.O.C.C. P. O. Box 2088 Santa Fe, New Mexico 87501

Re: Rachael Federal 9 No. 1 Well Section 9, T13S, R29E Chaves County, New Mexico

Dear Mr. Stogner;

Please find enclosed information concerning the geological picture, and lease situation concerning the referenced permit application. This information is being sent to show just cause for drilling the proposed well at a non-standard spacing location. The geological map is a contour map on the top of the Devonian horizon. Wellbore date was incorporated into a 3D seismic shoot to come up with the structure to be evaluated by the test well. Shown on this map are the old dry hole to be re-entered and the proposed bottom hole location for this application.

The E/2 of Section 8 and all of Section 9 are part of a large lease from the Bureau of Land Management. The lease serial number is NM-54287. The proposed unit and all offsetting acreage is therefore under one lease and one common owner.

If any additional information is needed, please feel free to call me at (616) 941-7919.

Sincerely,

TERRA ENERGY LTD.

Craig J. Tester Vice President Exploration & Production

Enclosures

CJT:11d 00004069.cjt

MAR-14-94 MON 15:29

16169413426

P.02



								Č
Form 9-330 514 U	IL CONS. C	OMMISSION						•
(Kev. 5-68) Draw	er DD	UNITED) STATES		T IN DUPLICA	re•	Form	approved. Bureau No. 42–8355.5.
Arte	*****	MENT O	F THE IN	NTERIOF	R (See ot struction	ons on		TION AND SERIAL NO.
			AL SURVE		reverse	BIGE	NM 542	· · · · ·
WELL COM			MPLETION	REPORT	AND LOG	*	6. IF INDIAN, ALL	OTTEB OR TRIBE NAME
18. TYPE OF WELL	: OII. Well	L GAS WELL	DRY X				7. UNIT AGREEMEN	T NAME
	LETION: WORK DEEP OVER SN	BACK	FIEL		P&A		S. FARM OB LEASE	NAMB
2. NAME OF OPERATOR		Y	ī <u>ī</u> 10	36 MII	-		Federal	"9"
E. P. Oper.		any	1004 0 1 15		· · · · · · · · · · · · · · · · · · ·		9. WELL NO.	
7800 Stemm					5247		10, FIELD AND POO	AL OB WILDCAT
4. LOCATION OF WELL At surface 10			and a state of the		ements)*			indesignated)
19	80' FSL &	· · · · · · · · · · · · · · · · · · ·	RECEN	ې ۲ ۵ کې د			OR AREA	OB BLOCK AND SURVEY
At top prod. inter	val reported belo	. W		1006			Section 9	, T13S-R29E
At total depth	Same		JAN 3	1986	DATE ISSUED		12. COUNTY OR	13. STATE
		ł		D.	9/6/85		PARISH Chaves	New Mexico
15. DATE SPUDDED	16. DATE T.D. RE	ACHED 17. DAT	E COMPLER Ready	1. to prod 1 18				ELEV. CASINGHEAD
10-2-85	11-3-8				3776' GR,			3776'
20. TOTAL DEPTH, MD A 9600 ' KB		, back t.d., md a P&A	, TVD 22. IF М Ноw	ULTIPLE COMPL. MANY [®]	23. INTEE DRILL		ROTARY TOOLS	CABLE TOOLS
24. PRODUCING INTERV.			P, BOTTOM, NAME	(MD AND TVD)*			O' RESOUR	19 ANA DIRECTIONAL
				•		X	Sterne	To to
P&A . 26. TYPE ELECTRIC AN	D ATTAT LACE D			, ,	. 5.	<u> </u>		WAS WELL CORED
DLL/MSFL/GR	•	C/CNL/GR/C	al BHC S	onic/GR/C	al			DE NO
28.			ING RECORD (R		· · · · · · · · · · · · · · · · · · ·	t -	NUV 1-4-	
CASINO SIZE	WEIGHT, LB./F			HOLE SIZE	·····	-1-2-	RECORD	AMOUNT PULLED
<u> 13–3/8" </u>	<u>48#</u> 24#		30' 300'	<u>17-1/2"</u> 11"	320 sx " 1100 sx L		Surface	0/
0/0	241		.00		1100 SX L	TLE	NEW	eare
					· · ·			
29.	······	LINER RECORD	· · · · · · · · · · · · · · · · · · ·		30.		UBING RECORD	
8IZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (M	D) SIZE	'	DEPTH SET (MD)	PACKER SET (MD)
			,				···· <u>·</u> _····	
31. PERFORATION RECO	BD (Interval, size	e and number)		82.		FRACT	URE. CEMENT SQ	UEEZE, ETC.
· · · · · ·	-1 / · · · · · · · · · · · · · · · · · ·	. ,	.,	DEPTH IN	TERVAL (MD)	КА	OUNT AND KIND OF	MATERIAL USED
						·		
33.*			PR	ODUCTION	<u>. </u>			
DATE FIRST PRODUCTIO	N PBODUC	CTION METHOD (Flowing, gas lift,		and type of pum	p)	WELL STAT shut-in)	US (Producing or
	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL-BBL.	DECORD MC	r1	WATER-BBL.	GAS-OIL RATIO
DATE OF TEST			OIL-BBL.	ACCEPTED FOI				
	CLOING DEEGITE	E CATCULATER		PETER XIS-	SICF.	WATER-	-880 010	GRAVITY-API (CORR.)
	CASING PRESSURE	E CALCULATED 24-BOUR BAT			1	1		
		24-BOUR BAT			1985	+	TEST WITNESSED	BT
FLOW. TUBING PRESS. 34. DISPOSITION OF GAM	8 (Sold, used for)	24-BOUR BAT	»	NOV 21	0 1985	+	TEST WITNESSED	BY
FLOW. TUBING PRESS. 34. DISPOSITION OF GAM 35. LIST OF ATTACHM	B (Sold, used for) ENTS	fuel, vented, etc.	<u> </u>	NOV 2	GEM	ENT		
FLOW. TUBING PRESS. 34. DISPOSITION OF GAM 35. LIST OF ATTACHIN	B (Sold, used for) ENTS	fuel, vented, etc.	<u> </u>	NOV 2	GEM	ENT		
FLOW. TUBING PRESS. 34. DISPOSITION OF GAN 35. LIST OF ATTACHMI 36. I hereby certify t	B (Sold, used for) ENTS	fuel, vented, etc.	information 1948	NOV 2	D MANAGEMI SOURCE ARE/		all available record	18
FLOW. TUBING PRESS. 34. DISPOSITION OF GAN 35. LIST OF ATTACHIN	B (Sold, used for) ENTS that the foregoing	fuel, vented, etc.) Information 1940	NOV 2	GEM		all available record	

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

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

or Federal office for specific instructions.

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

37. SUMMARY OF POI SHOW ALL IMPO DEPTH INTERVAL FORMATION	ROUS ZONES : RTANT ZONES OF PO L TESTED, CUSHION TOP	BOSITY AND CONTEN USED, TIME TOOL OI BOTTOM	THEREOF; CORED INTERVALS; AND ALL DBILL-STEM TESTS, INCLUDING EN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES DESCRIPTION, CONTENTS, ETC.	38. GEOLOG	IC MARKERS	0P
OST #1 San Andres OST #2 Devonian	2475 9490	2655 9508	No recovery, IFP=ISIP=FFP=FSIP=13.5 psi No Cushion Recovered 377' Drilling Mud, 3334' For-	San Andres Wolfcamp Strawn Atoka Mississippian	2498 ' 6804 ' 8215 ' 8520 ' 8890 '	TRUE VERT. DEPTH
	NING BURGE - WELKE ALERATIN - COLUMN	Abril of the arrive sector of the sector of	<pre>mation water IFP 392/828 psi ISIP 3302 psi FFP 871/1650 psi FSIP 3652 psi HP 4660 psi No Cushion Times on Both Tests: IFP - 30 min., ISIP - 90 min., FFP - 60 min., FSIP - 180 min.</pre>	Devonian Devonian A 2022		ELT COMPLETION ON MEAD GEOLOGICA DEPARTMENT N DEPARTMENT

· .		IN DIL CONS. COMMIS	SION	Form approved.	
Form 3160-5 (November 1983)	UNITED STATES	Drawer DD SUBMIT IN TRIPLI	CATE.	Budget Bureau Expires August	No. 1004–0135 > /
(Formerly 9-331) DEPAR	MENT OF THE INT	ERIOR verse lide)	on re-	5. LEASE DESIGNATION	
BURE	AU OF LAND MANAGEN	AENT	1	NM- 5428	37
SUNDRY NO	TICES AND REPORT	IS ON WELLS		6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
		blug back to a different reservoir. uch proposais.)			
	CATION FOR PERMIT—" for a	uch proposais.)		NA	·
	·	RECEIVED BY		7. UNIT AGREEMENT NA	ME
WELL WELL OTHER	DRY HOLE			NA	<u></u>
		NOV 25 1985		8. FARM OR LEASE HAD	
E. P. Operating Compa	<u></u>	1104 20 1000		Federal 9. WELL NO.	<u> </u>
7800 Stemmons Frwy.,	Suite $500 - Dallac$	Toxas C75247			1
4. LOCATION OF WELL (Report location				10. FIELD AND POOL, Q	A WILDCAT -
See also space 17 below.)	150.	Commentation of the second sec		Wildcat (Une	Levonar
At surface 1980 TSL	660' FWL (NW/4 ·	- SW/4)		11. SHC., T., R., M., OR I	I.E. AND
				SURVEY OR AREA	
	. MIN			Section 9,	T135-R29E
14. PERMIT NO.	18." ELEVATIONS (Show wheth	her DF, ST, GR, etc.)		12. COUNTY OR PARISH	13. STATE
111	DIVISION	<u>3776' GR</u>		Chaves	New Mexico
16. LIL ANISER CHECK	Appropriate Box. To Indica	te Nature of Notice, Repor	+ ~~ 0	ther Data	
NOTICE OF INTI					
				BNT REPORT OF:	
TEST WATER SHUT-OFF	PELL OR ALTER CASING	WATER SHUT-OFF		BEPAIRING 1	WELL
FRACTUBE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMEN		ALTERING C.	LBING
SHOUT OB ACIDIZE	ABANDON*	SHOOTING OR ACIDIZI		ABANDONMEI	ST*
NEPAIR WELL	CHANGE PLANS	(NOTE : Report	results	Stem Test of multiple completion etion Report and Log for	on Well
This Sundry Notice i On November 3, 1985 an interval from 949	a drill stem test w	was performed in the	Devo	nian formation	n through
		. –			
30 minut	-	h $1-1/2$ inch blow in	bubb	le bucket, clo	sed
90 minut	with 1 psi e ISIP -				
		h l inch blow in bub	ble b	ucket steady t	hrough-
	out period.		DIE D	ucket steady t	.mougn-
180 minut	-	-			
			1 A.		
Drill pipe recovery					
Sample Chamber conta	ined: 0.271 cf gas	s at 21 psi; 300 cc'	s for	mation water	×
Pressures: IHP - 46			psi;	FFP - 871/165	j0 psi;
FSIP = 3 BHT = 152°F	652 psi; FHP - 461	o psi			10 A
ын — 192 г		· · ·			
					· · ·
	γ				
18. I hereby certify that the foregoing	is true and correct	· · · · · · · · · · · · · · · · · · ·			·
SIGNED THE	eeply TITLE	Regional Drilling M	lanage	er DATE 11-	12-85
C_H_Peeples					
(This space for Federal or State o	dice use)			ACCEPTED FOR RECORD	
APPROVED BY	TITLE .		PE	TER W CHESTE	
CONDITIONS OF APPROVAL. IF	ANY :				
				1095	l
				NOV 2 0 1985	
	"Jee Instruc	tions on Reverse Side		AU OF LAND MANAG	GEMENT
			LOUDE /	AU OF LAND MARIA	ARFA '

2

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

Form 3160-5	HAH	TED STATES	MU DIE CONS. COMMISSIC		Porm approveu. Budget Bureau M	
(November 1983) (Formerly 9-331)	DEPARTMEN	T OF THE INT	Drawer Stamit IN TRIPLICA (Other instructions on BRIOR greenwide) 88210	re-	Expires August 5. LEASE DESIGNATION	
		LAND MANAG			NM 54287	
SUR	NDRY NOTICES	AND REPOR	TS ON WELLS		8. IP INDIAN, ALLOTTEE	OR TRIBE NAME
	a form for proposals to	daill on to deepen on	alug back to a different reservoir		NA	
1.	Use AFFLICATION	FOR PERMIT	RECEIVED BY		7. UNIT AGBEEMENT NAL	
OIL GAS WELL	Orith Cilling	LYZE			NA	
2. NAME OF OPERATOR	المسلم المرابع	4095	OCT 23 1985		S. FARM OR LEASE NAM	£
EP Operating		s 1985			Federal "9"	
3. ADDRESS OF OPERATO		DIVISION	O. C. D. Texasrie75247 CE). WBLL NO.	
7800 Stemmon	ns FTWA AUDI	ATBOD, Dallas	, Texas _{RTE} 7,5247	 _	10. FIELD AND POOL, DE	WILDCAT
See also space 17 be At surface	low.)				Wildcat (Uni	poner c
1980'	FSL & 660' FW	L (NW/4-SW/4)	3 4	-	1. SEC., T., B., M., OR B	LK. AND
	3		· ·		SURVET OR AREA	
					Section 9,	
14. PERMIT NO.	15.	ELEVATIONS (Show whe			12. COUNTY OR PARISH	
	<u> </u>		'6' GR		Chaves	New Mexico
13.			ate Nature of Notice, Report, c	or Oth	ner Data	
	NOTICE OF INTENTION 1	: 01	80B	BEQUEN	T REPORT OF:	
TEST WATER SHUT-	OFF PULL O	OR ALTER CASING	WATER SHUT-OFF		REPAIRING W	BLL
FRACTURE TREAT		PLE COMPLETE	FRACTURE TREATMENT		ALTERING CA	81NO
SHOOT OR ACIDIZE	ABANDO		SHOOTING OR ACIDIZING		ABANDONMEN em Test	т• <u> </u>
REPAIR WELL (Other)	CHANG	E PLANS	(NOTE: Report res	ults of	multiple completion of on Report and Log for	on Well
nent to this work. This Sundry On October	›• Notice is ser 8, 1985 a dril	nt as a subsec l stem test v	e locations and measured and crue ve quent report of perform was performed in the Sa 2475 feet. The follow	ning In An	a drill stem dres formatio	test. n
	30 minute II 90 minute IS 60 minute FI 180 minute FS	SIP 7P - Openeo	l with 2 bubbles to sur l with no blow and rema		- 1 	•
Had no dril	1 pipe recover	ry, no sample	chamber recovery.	· · ·		, i
	$BHT = 108^{\circ} I$	· ·		 - -		
Pressures:						
· · · ·		9.4 psi				
		3.5 psi		 	- OCT 1 (* 103	()
		3.5 psi		\		
		3.5 psi		Jana	e de la companya de la	
		3.5 psi 9.4 psi				
•	1111 110	psr				el server and
18. I hereby certify the	the fotomate finder	and colorest	· · · · · · · · · · · · · · · · · · ·			
10. 1 mereoy certury the					~ ·	
SIGNED	Paeplas	TITLE	Regional Drilling Mana	iger	DATE Octob	er 11, 1985
	deral or State office use)		·		
APPROVED BY					ACCEPTED FOR RECO	TER
CONDITIONS OF	APPROVAL, IF ANY:	IIILE	· · · · · · · · · · · · · · · · · · ·		PETER W. CHES	
				. .		
			actions on Reverse Side		OCT 2 2 198	
•					FALLOF LAND MAL	NAGEMENT
Cule 17 113-01 Sect Verten Sturio unv 6	arn 19 <mark>01, makes</mark> it a The lightenus (f.fran	orime for any perso idulari statements	on knowingly and willfully to mak or representations as to dry matte	e BU R er wirf	OSWELL RESOURCE	ENAREA the

Form 3160-5 NM OIL CONS. ((November 1983)rawer DD (Formerly 9-33) Artesia, DUP	COMMISSION UNITED STATES EMENT OF THE INTERI	SUBMIT IN TRIPLICAT (Other instructions on verse side)	Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985 5. LEASE DESIGNATION AND SEELAL NO.	;F
BURE	AU OF LAND MANAGEMEN	· · · · · · · · · · · · · · · · · · ·	NM 54287	
SUNDRY NO	TICES AND REPORTS (bonals to drill or to deepen or plug b CATION FOR PERMIT	ON WELLS	6. IF INDIAN, ALLOTTEB OR TRIBE NAME	
Use "APPLIC	CATION, FOR PERMIT for such p	POPOLATECEIVED BY	1 NA 7. UNIT AGREEMENT NAME	
	Cil Minute	COT 20 1005		
2. NAME OF OPERATOR	1 11 LOSI 64 TO	UI: 20 1985	A BARM OR LEASE NAME	
EP Operating Company,		0 0 0	Federal "9"	
A ADDRESS OF OPERATOR		ARTESIA, OTTICE	i 9. WHIL NO.	
7800 Stommons Frank	SNGEFVITU clearly and in accordance with any	evac 75747		
4. LOCATION OF WELL (Report logistion See also space 17 below.)	clearly and in accordance with any	State requirements.*	10. FIELD AND POOL, OR WILDCAT	
At surface	660' FWL (NW/4 - SW/	4)	Wildcat (Undesignated) 11. SBC., T., R., M., OS BLE. AND SURVEY OB AREA	
14. PERMIT NO.	15. ELEVATIONS (Show whether DF	BT. CR. etc.)	Section 9, T13S-R29E 12. COUNTY OF PARISE 18. STATE	
	3776' G		Chaves New Mexico	
	·	· · · · · · · · · · · · · · · · · · ·		
16. Check A	Appropriate Box To Indicate N	lature of Notice, Report, a	or Other Data	
NOTICE OF INT	ENTION TO:	\$0B	SEQUENT REPORT OF :	
TEST WATER SHUT-OFF	PULL OB ALTER CABING	WATER SHUT-OFF	REPAIRING WELL	
FRACTURE TREAT	NULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING	
SROOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDON MENT [*]	
REPAIR WELL	CHANGE PLANS		ng & Setting Casing X	
(Other)		(NOTE: Report res Completion or Reco	ults of multiple completion on Well completion Beport and Log form.)	
nent to this work)* The Federal "9" No. 1	l well was spudded on	October 2, 1985 at	Ates, including estimated date of starting any rtical depths for all markers and sones perti- 4:00 p.m A 17-1/2 inch 4, H-40, STC surface casing	
was run to 330 feet a Chloride. Cement was into place on October tested to a pressure	and was cemented to su s circulated to surfac c 3, 1985. The BOP st	rface with 320 sack e. The surface cas ack was nippled up drilling out, the	cs Class "C" + 2% Calcium sing was run and cemented and was satisfactorily surface casing was pressure	
An 11 inch hole was o K-55, ST&C intermedia "Lite" cement + 7#/sa Chloride. Cement was sacks Class "H". App Cementing of the inte the ram preventers was	drilled to a depth of ate casing was run to ack salt + 0.1% D-46,t s not circulated to su proval was orally obta ermediate was performe ere pressure tested to	2300 feet and a str total depth and was ailed in with 200 s rface but was topped ined from the B.L.M d on October 6, 198 2500 psi, the annu	ring of 8-5/8 inch, 24#, s cemented with 900 sacks sacks Class "H" + 2% Calcium ed out to surface with 100 % prior to topping out. 85. On October 7, 1985 ular preventer to 1500 psi. pressure tests were satis- OCT 1 51335	
			and the second s	
18. I hereby certify that the foregoing	is true and correct	······································		
SIGNED C. H. Peeples	eptes TITLE RE	gional Drilling Man		-
(This space for Federal or State of	office (use)		ACCEPTED FOR RECORD	
APPROVED BY	TITLE		ACCEPTED FOR RECORDER	
CONDITIONS OF APPROVAL, IF				
			OCT 2 2 1985	
	*See Instruction	s on Reverse Side	AUREAU OF LAND MANAGEMENT	

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

ments 9-381) UEPA	UNITED STATES P. O. I	OR Seventian CO 88240	TE Expires August 31, 5. LEASE DESIGNATION AND	
BL 1085 BL	JREAU OF LAND MANAGEMEN	Τ	NM 54287	
	NOTICES AND REPORTS (6. IF INDIAN, ALLOTTEE OR	TRIBE NAME
(Do not use this form for Use "AF	proposals to drill or to deepen or plug b PPLICATION FOR PERMIT—" for such p	back to a different reservoir. mposals.)	NA	
			7. UNIT AGREEMENT NAME	
NAME OF OPERATOR			NA.	<u> </u>
EP OPERATING COMPA	ANY	11307	FEDERAL "9"	
ADDRESS OF OPERATOR	۳۳۵۵ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ (۲۰۰۱ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰		9. WHLL NO.	·····
	y., Suite 500, Dallas, T		1	· · · · · ·
LOCATION OF WELL (Report locs See also space 17 below.) At surface	ation clearly and in accordance with any	State requirements.	10. FIELD AND POOL, OR W	ANIAN
1980' FSL	& 660' FWL (NW/4-SW/4)		Wildcat (whdee 11. SBC, T., R., M., OB BLK.	AND
			Section 9, T13	S-R29E
PERMIT NO.	15. ELEVATIONS (Show whether DF	GR	12. COUNTY OR PARISH 13	
			Chaves	<u>New Mexi</u>
•	k Appropriate Box To Indicate N	lature of Notice, Report, o	r Other Data	
NOTICE OF	INTENTION TO:	8086	BEQUENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	BEPAIRING WEL	ь <u> </u>
PBACTUBE TREAT	MULTIPLE COMPLETE	FRACTUBE TREATMENT SHOOTING OR ACIDIZING	ALTERING CASIN	
SHOOT OR ACIDIZE	ABANDON*	1	ABANDONMENT*	X
(Other)		(NOTE: Report res	ults of multiple completion on mpletion Report and Log form.)	Well
	ion of a change in locat		An approximate 90'	
caliche pit was d 6' deep. The att and dimensions.	ion of a change in locat ug due east of the propo ached well site layout s Oral approval was obtain tember 24, 1985. Bureau	osed reserve pit. T wheet (Exhibit "E") and from the Bureau	An approximate 90' The pit is an avera shows the caliche of Land Management,	x 90' ge of pit Roswell,
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*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 one factor of the united states one factor of the united states on the states of t

Approval Stipulation

EP Operating Co. 1 Federal "9" 1980'/FSL, 660'/FWL Sec. 9, T.13S., R.29E.

Sundry Notice Approval for Addition of Caliche Pit to Surface Use Plan

Upon abandonment of this well, all caliche removed from this pit will be scraped from the location and placed back into the pit. This stipulation is in addition to other stipulations which will be developed for surface reclamation at the time of abanonment.

November 1983) BY (formerly 9-331C) SEP -0 1985	DEPARTMENT	ED STATES		IPLICATE	Budget Bureau I Expires August 5. LEASE DESIGNATION	No. 1004-0136 31, 1985 AND BEBIAL NO.
ADDUCATION					6. IF INDIAN, ALLOTTER	-
	TOR PERMIT	O DRILL, DEI	EPEN, OR PLUG E	ACK		
1a. TYPE OF WORK			PLUG BA	CK []	NA 7. UNIT AGREEMENT NA	AMB
b. TIPE OF WELL					NA	
OIL X OA			SINGLE X MULTIP		8. FARM OR LEASE NAM	110
2. NAME OF OPERATOR	1	· · · · · · · · · · · · · · · · · · ·			Federal "9	11
EP Operating (Company - 💳	مروما المرود والمرود	الم المحادث		9. WELL NO.	
3. ADDRESS OF OPERATOR					1	•
7800 Stemmons	Frwy - Suite 50	0 - Dallas, 1	Texas 75247		10. FIELD AND POOL, O	N WILDCAT
4. LOCATION OF WELL (R) At surface	eport location clearly and	in accordance with a	ny State requirements.*)	V	Wildcat (Un	designated)
1980	' FSL & 660' FWI	(NW/4 - SW)	/4)	1	11. SEC., T., R., M., OR E AND SUBVEY OR AB	ILK.
At proposed prod. zon	e		ist.		AND SURVEI OR AL	
	Same		\mathcal{U}	v	Section 9,	T13S-R29E
14. DISTANCE IN MILES A	AND DIRECTION FROM NEAR	EST TOWN OR POST OF	FICE*		12. COUNTY OR PARISH	13. BTATE
Approximately	<u>v 17-1/2</u> miles H	ast-Northeas	t of Hagerman, N.	м.	Chaves	New Mexico
15. DISTANCE FROM PROPU LOCATION TO NEAREST	SED.	16	. NO. OF ACRES IN LEASE	17. NO. C	F ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L (Also to nearest drig		1980'	2280 [÷]		40	
13. DISTANCE FROM PROP TO NEAREST WELL, DI		19	. PROPOSED DEPTH	20. ROTA	RY OB CABLE TOOLS	
OR APPLIED FOR, ON THI	IS LEASE, FT.	NA	9700'		Rotary	
21. ELEVATIONS (Show whe	ether DF, RT, GR, etc.)	······		·	22. APPBOX. DATE WO	BK WILL START*
	3776	GR			September	15, 1985
23.	P	ROPOSED CASING	AND CEMENTING PROGR.	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMEN	T
17-1/2"	13-3/8"	48#	300'	469 6	u. ft. Circula	te to Surface
12-1/4"	8-5/8"	24#	2300'		u. ft. Circula	
7-7/8"	5-1/2"	17#	9700'		u. ft. Cement	
Propose to to surface	drill a 17-1/2 • A 13-3/8 incl	inch hole to n, 3000 psi b	300 feet, set 13 radenhead and a 1	-3/8 in 2 inch,	ch surface cas 3000 psi annu	ing and cemer lar preventer

to surface. A 13-3/8 inch, 3000 psi bradenhead and a 12 inch, 3000 psi annular preventer will be installed and tested. Drill a 12-1/4 inch hole to 2300 feet and set 8-5/8 inch intermediate casing and cement to surface. The 13-3/8 inch bradenhead will be removed and an 8-5/8 inch, 3000 psi bradenhead, 3000 psi double ram blowout preventer and a 3000 psi annular preventer will be installed and tested. Drill a 7-7/8 inch hole to a total depth of 9700 feet and run a suite of open-hole logs. Evaluate the logs. If productive, run a string of 5-1/2 inch casing to total depth and cement from 9700 feet to 7900 feet (an additional stage may be used to cover the ABO shale). If dry, plug and abandon according to the rules and regulations of the Minerals Management Service and the State of New Mexico.

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

preventer program, il any.			
SIGNED C. H. Peeples	TITLE Regional	Drilling Manager	igust 20, 1985
(This space for Federal or State office us;)		N CLL BESOW	12
PERMIT NO	APPROVAL 1		
S/Levi Deike, Acting		a nluitt	Urza. ~
APPROVED BY OUTRY, ACTING CONDITIONS OF APPROVAL, IF ANY :	TITLE	AUG2 6 198	15
*See I	Instructions On Reve	ene Side	Se la
			and the

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any description.

Exhibit "B"

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

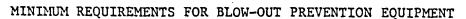
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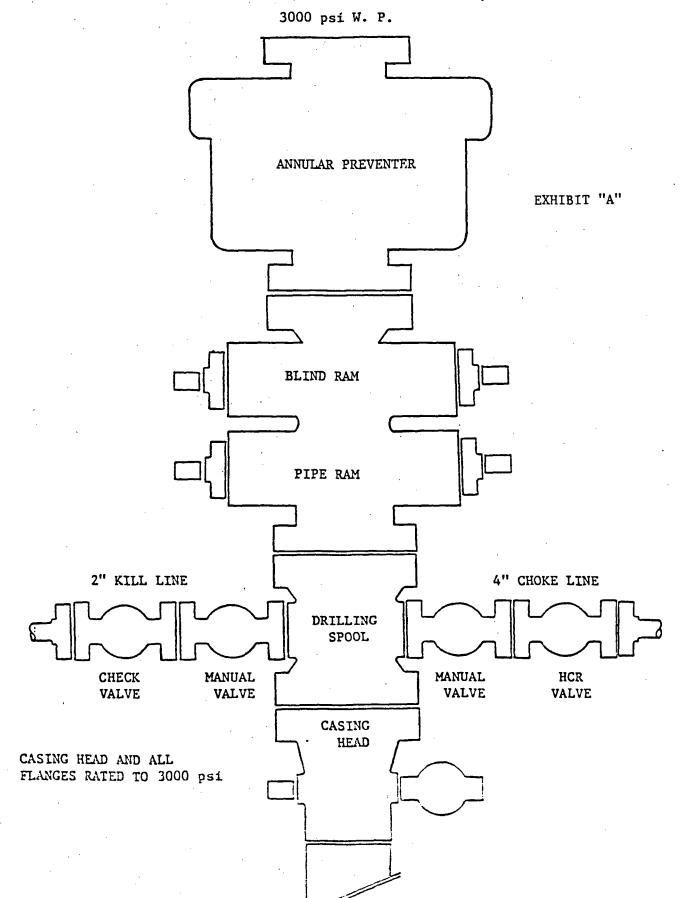
Form C+152 Supersedes C+128 Effective 1-1-65

	erating Company CH EXPLORATION,	- formerly	m the outer boundaries o _ease FEDERAL 9		Well No. 1			
Letter Sec	tion Townsh		Range	Jounty				
L	9	135	29E	CHAVES				
al Footbae Location			660	et toon the WEST				
1980 fe na Level Elev.	et from the SOUTH Producing Formation	line and	2001	et from the WLOT	Une Dedicatert Accesses			
3775.5	Devonian]	Wildcat		40 Acr			
	creage dedicated to	the subject wel	by colored pencil	or hachure marks of				
interest and r 3. If more than o dated by comm Yes If answer is	oyalty). ne lease of different nunitization, unitizat] No If answer i 'no?' list the owners	ownership is de ion. force-poolin s "ves." type of	edicated to the well. g. etc? consolidation	have the interests	p thereof (both as to workin of all owners been consol lidated, (Use reverse side o			
	will be assigned to th				communitization, unitization ren approved by the Commis CERTIFICATION			
				tainea best a 	by certify that the information coil I herein is true and complete to the of my knowledge and belief. A. P. P. C. C. H. Peeples			
				Ensi Ensi	ional Drilling Manag			
560' —q				shown notes under is tru	by certify that the well location on this plat was platted from fre of actual surveys made by me my supervision, and that the san we and correct to the best of m edge and belief.			
085					rveyed 7/9/85 red Frotessional Engineer and Surveyor Amm/11/11, A			
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ENSERCH EXPLORATION, INC





MINIMAL REQUIREMENTS FOR CHOKE MANIFOLD

3000 psi W. P.

EXHIBIT "A" Continued

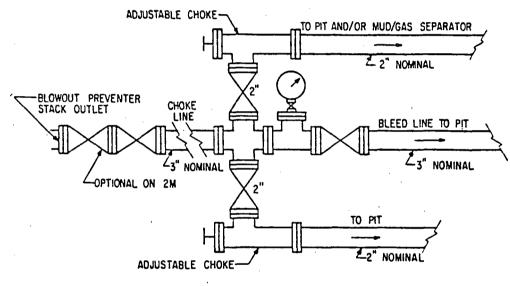


FIG. 3.A.1

TYPICAL CHOKE MANIFOLD ASSEMBLY FOR 2M AND 3M RATED WORKING PRESSURE SERVICE – SURFACE INSTALLATION

WRS COMPLETION REPORT REISSUES SEC 9 TWP 139 PI# 30-T-0001 06/09/86 30-005-62293-0000 29E 13S RGE PAGE * 1980FSL NMEX CHAVES 660FWL SEC STATE FOOTAGE COUNTY: [⊗]SPCT ^{∞∞} EP OPERATING WF WF CLASS INIT SUSSEEN OPERATOR * FEDERAL "9" 1 WELL NO. LEASE NAME 3788KB 3776GR WILDCAT OPER ELEV ********* FIELD / POOL / AREA API 30-005-62293-0000 10/04/1985 11/06/1985 ROTARY D&A SPUD DATE TOOL STATUS 0000000 9700 DEVONIAN HONDO DRLG 7 RIG SUB 11 10000000 DTD 9600 FM/TD DEVONIAN LOCATION DESCRIPTION 16 MI NE HAGERMAN, NM CASING/LINER DATA CSG 13 3/8 @ 330 W/ 320 SACKS CSG 8 5/8 @ 2300 W/ 1100 SACKS 01 ŏź FORMATION TEST DATA 2475- 2655 SN ANDRS NOM IFP 92 FFP IFP 92 FFP 92 DST 003 1 30M IFP 92 OP INIT - rrp 92 92 3H 92 1H30M FSIP 1257 ISIP IHP 1257 FHP NO OTHER DETAILS NO FLUID RECOVERY 9490- 9508 DEVONIAN 004 DST 2 377.0 FT MUD 300.0 CC WTR OP 30M IFP REC REC 3334.0 FT FWTR INIT OP 3 FINAL OP 1H ISIP 3302_1H 392 FFP 828 FINAL OP 1H IFP 871 FFP 1650 ISIP 3302 1H FSIP 3652 3H IHP 4459 FHP 4615 SPL REC .271 CFT GAS @ 21 PSI + 300 CC WTR CHL 25000 4615 PPM DRILLING PROGRESS DETAILS EP OPERATING 1230 RIVER BEND DR STE 136 CONTINUED IC# 300057010485 Copyrighted Petroleum Information PI-WRS-Reproduction Prohibited

REISSUES PI# 30-T-0001 06/09/86 SEC 9 TWP 13S RGE 30-005-62293-0000 29E PAGE 2 EP OPERATING WF WF FEDERAL "9" DRILLING PROGRESS DETAILS DALLAS, TX 75247 214-630-8711 LOC/1985/ DRLG 3600 (SH) DRLG 6006 (SH) LOC DRLG 8135 (LM & SH) TD REACHED 11/01/85 RIG REL 11/06/85 9600 TD COMP 11/6/85, D&A NO CORES, TWO DSTS REISSUE TO CORRECT DSTS REISSUE TO CORRECT DSTS REPLACEMENT FOR CT ISSUED 12/9/85 09/05 10/10 10/17 10/21 10/24 12/06

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vol, Inc. Mins. F. Walter	Chevron (*) 12:1:300 htex 13:3000 Gulf-St 152 9 To 8844 03:1:4:60	4H Cievron 12-1-90	9.4 °2 19 [™]	63739	63739			10.661 43546	10 L 87 31109	10 · 1 67 3109	43546	36		47.36 2	<u> </u>	26 85 Kas ¢' &	At be Con Unit	
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	14		F053 3	18 JL McClellan No KingComp Unit	**⊗'	J.M. Collins 2 1 95 60049	16	61348 15	EI 310 Sabine 10 17 letois isi 074 5 0 53	G134B	14		13	Z7.01 J	18	N.E Mitchell 9-1-95	17 R.v Sibert 121-95 1 163744	•
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23	BPFACTOR	13.46.11	11/03/80					
	00159E			DC	X • 00 •			
	00159F	00000A		DC	X '00000A'			
	0015A2	0D0001F8		DC	X*0D0001F8*	BL =1		
	0015A6	001F		DC	X . 001E.			
	0015A8	FFFF		DC	X FFFF			
363								
	0015AA		GN=016	EQU	*			
		F2 71 D 228 6 0			228(8,13),000(2,6)	TS=025	DNM=1-401	
		F9 10 D 22E C 0	98	СР	22E(2,13),098(1,12)		LIT+0	
		58 FO C 088			15,088(0,12)	GN=017		
2/3	0015BA	07 DF		BCR	13,15			
363	001 580						•	
	0015BC				15,008(0,12)	V(ILBDDSPO)		
	0015C0 0015C2	05 1F 0001			1,15 X'0001'			
	001502	10		DC DC	X 10 1			
·		000016		DC	X*000016*			······
	001508	0C00014A		DC	X 0C00014A	LIT+178		
	001500	0000		DC	X*000014A*	LIITIO		
	0015CE	06000 0F		DC	X*0000			
	0015CF	000002		DC	X*00002*			
	001502	0D000200		DC	X*00000200*	BL =3		
	001506	0000	· · · · · · · · · · · · · · · · · · ·	DC	X*0000*			
	001508	FFFF		DC	X [®] FFFF	-		
364				20		2. 2.		
	0015DA	58 10 C 044	- <u>-</u> ,	L	1,044(0,12)	PN=010		
	0015DE			BCR	15,1			
365								
	0015E0		GN=017	EQU	*:	· · · · · · · · · · · · · · · · · · ·		
	0015E0	92 F0 6 002		MVI	002(6),X'F0'	DNM=1-417		
	0015E4	D2 07 6 003 C 0		MVC	003(8,6),084(12)	DNM=1-432	LIT+28	
	0015EA	D2 07 6 00E C 0		MVC	00E(8,6),084(12)	DNM=1-484	LIT+28	
		D2 08 6 01F C 0		MVC	01F(9,6),0BC(12)	DNM=2-19	LIT+36	
		D2 08 6 016 C 0		MVC		DNM=2-0	LIT+36	
	0015FC	D2 08 6 028 C 0		MVC	028(9,6),0BC(12)	DNM=2-35	LIT+36	
	001602	D2 05 6 031 C 0		MVC	031(6,6),0B6(12)	* DNM=2-51	LIT+30	
	001608			MVC	037(8,6),084(12)	DNM=2-67	LIT+28	
2/7	00160E	D2 04 6 03F C 0	AF	MVC	03F(5,6),0AF(12)	DNM=2-85	LIT+23	
367		50 10 5 004						
	001614		·			PN=02	5 8	
240	001618	07 F1		BCR	15,1			
368								-
369	001/14	E2 /2 / 050 / 1	<u></u>	114101	AF0/F / 101/2 / 1	DNM-21212	DNM-2 / 0/	<u></u>
	00161A	F3 42 6 059 6 1	01	UNPK	•	DNM=2-312	DNM=3-484	
370	001620	96 F0 6 05D		01	05D(6),X'FO'	DNM=2-312+4		
570	001626	EQ 74 D 220 4 4	00	7 4 0	22010 121 40015 41	TC+025	0.NM-4-195	<u>.</u>
	001624 00162A	F8 74 D 228 6 4 F0 40 D 22B 0 0		ZAP	228(8,13),409(5,6)	TS=025 TS=028	DNM=6-185	
	001630	D2 0B D 230 C 0		SRP MVC	22B(5,13),03E(0),0 230(12,13),0C5(12)	TS2=1	LIT+45	
	001636	DE 0B D 230 C 0		ED	230(12,13),005(12) 230(12,13),22B(13)	TS2=1	T S=028	
	001630	05 30	20	BALR	3,0	(JZ-L	1 3-020	
	00163E	47 40 3 008		BC	4,008(0,3)			
	001642	92 40 D 23B		MVI	23B(13),X'40'	TS2=12		
	001646	D2 0A 6 061 D 2	21	MVC	061(11,6),231(13)	DNM=2-349	T \$ 2 = 2	

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