121938923 NSL



211 HIGHLAND CROSS, SUITE 227 HOUSTON, TEXAS 77073 281-821-5600 281-821-5602 fax



July 3, 2001

State of New Mexico Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Att: Michael Stogner

Dear Sir:

Primal Energy Corporation as current operator of the Knowles #1, Sec. 1, 16S, 38E, Lea County, requests that the attached be made a part of our previous application for an unorthodox well location.

This application is necessary due to the condition of the current borehole. The well will be directionally drilled to a location that will give better porosity without sacrificing structure.

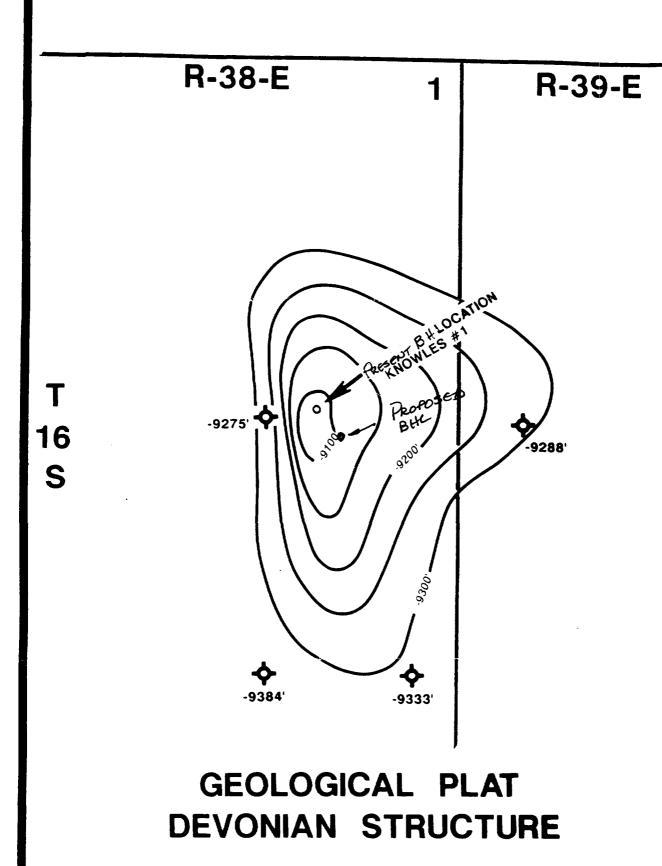
Please review this application and if further information is needed, please call.

Sincerely,

PRIMAL ENERGY CORPORATION

John Abernethy

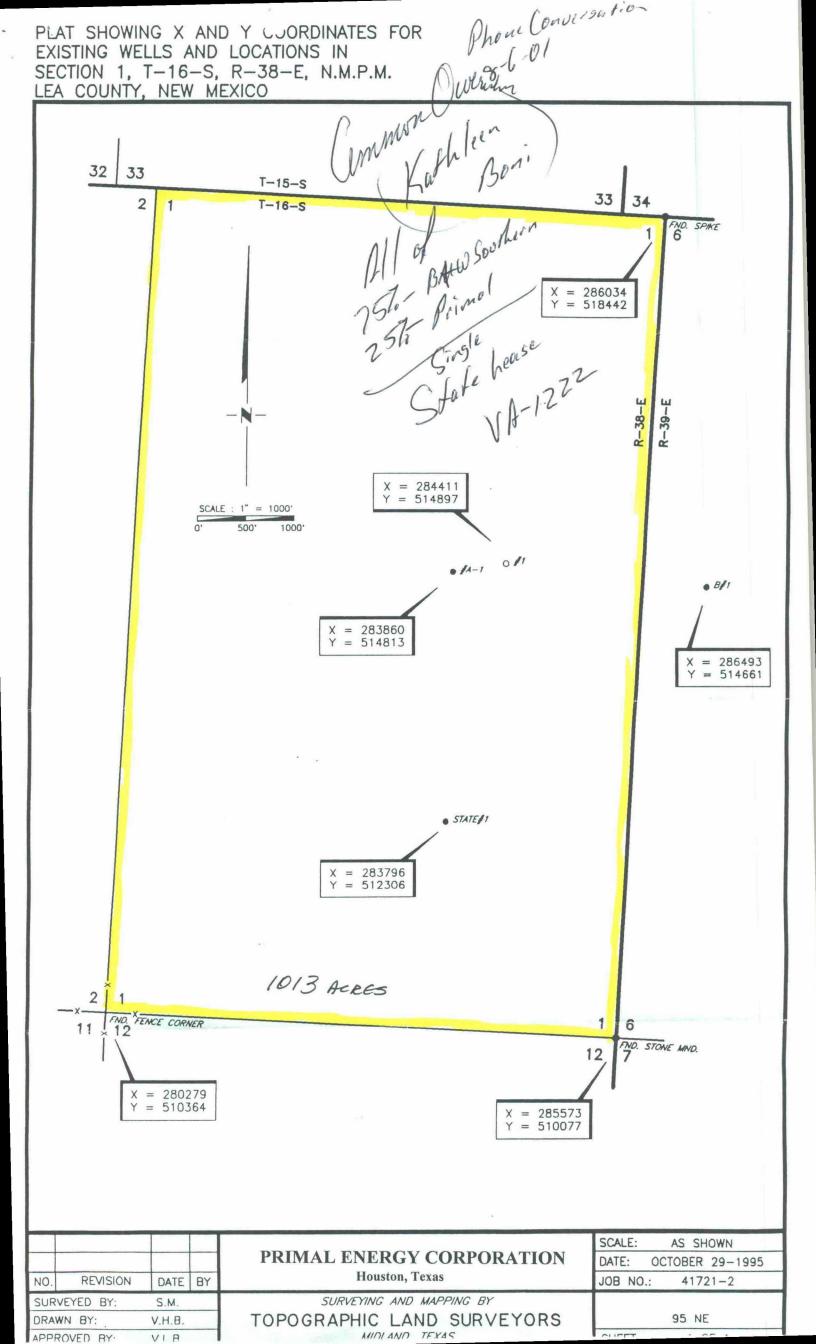
Manager, Operations & Engineering.

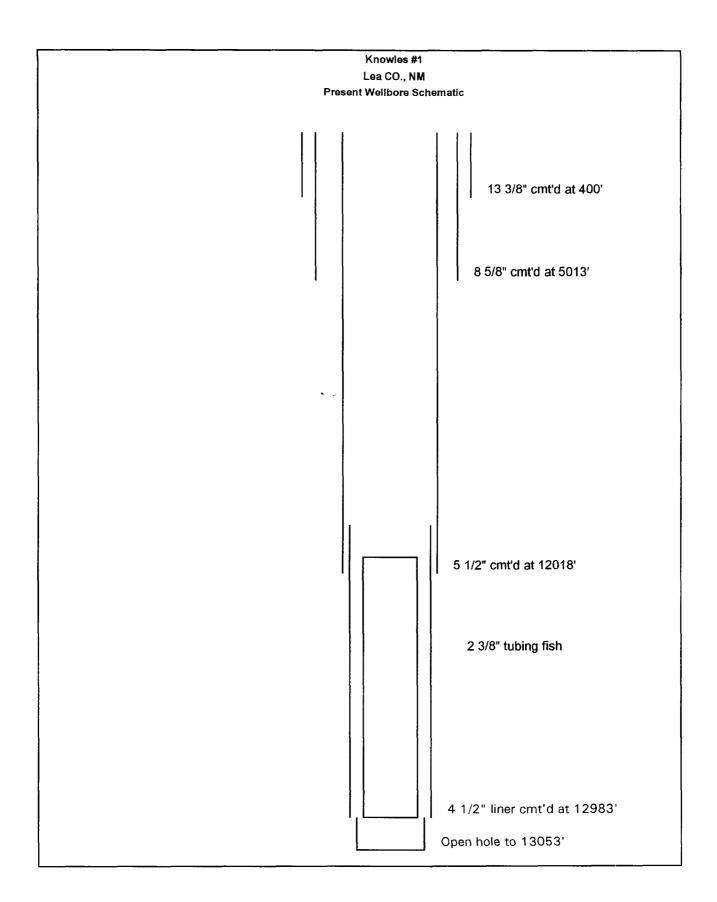


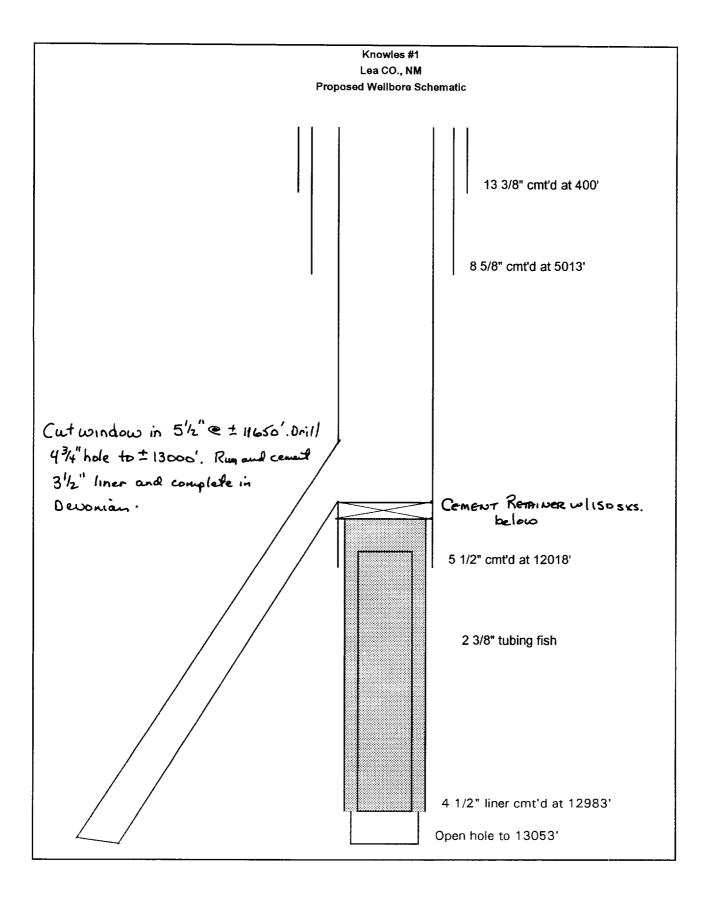
PROPOSED LOCATION LEA COUNTY, NEW MEX.

1'=1000'

CI=50'







PRIMAL ENERGY CORPORATION

JN 2 2 2001

211 HIGHLAND CROSS, SUITE 227 HOUSTON, TEXAS 77073 281-821-5600 281-821-5602 fax

June 19, 2001

State of New Mexico Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Att: Michael Stogner

Dear Sir:

Primal Energy Corporation as current operator of the Knowles #1, Sec. 1, 16S, 38E, Lea County, requests an amendment to previously approved unorthodox oil well location (Case #11415, Order # R-10509).

The well was originally drilled in 1996. During drilling operations a DST string was lost which resulted in the well having to be side tracked. Recently, we attempted to clean out the well to improve production and found that the 4 ½" production liner was damaged beyond repair. We find it now necessary to cut a window in the 5 ½" casing and sidetrack the well. This proposal will result in a new bottom hole location as shown on the attached C-102.

Please review this application and if further information is needed, please call.

Sincerely,

PRIMAL ENERGY CORPORATION

John Abernethy

Manager, Operations & Engineering

Submut 3 Copies

State of New Mexico

to Appropriate

Energy, Minerals and Natural Resources Department

Form C-103

APPROVED BY _____

CONDITIONS OF APPROVAL. IF ANY:

District Office					Revise	ed 1-1-89
DISTRICT I	OIL CO	ONSERV A	ATION DIVISION			
PO Box 1980, Hobbs, NM 88241-1980		2040 Pacheo	eo St.	WELL API	NO.	
DISTRICT II	S	anta Fe, NM	87505	30-0)25-33177	
PO Drawer DD, Artesia, NM 88210				5. Indicate	Type of Lease	
DISTRICT III					STATE X FEE	
1000 Rio Brazos Rd., Aztec, NM 8741	0			6. State Oil	& Gas Lease No.	
					V-1222	
S	UNDRY NOTICES AND REPOR	RTS ON WE	LLS			
(DO NOT USE THIS	S FORM FOR PROPOSALS TO DRILL	OR TO DEEPE	N OR PLUG BACK TO A	7. Lease Na	ame or Unit Agreement Name	
DI	FFERENT RESERVOIR. USE "APPLIC.	ATION FOR P	ERMIT"			
	(FORM C-101) FOR SUCH PRO	OPOSALS.)			Knowles	1
1 Type of Well:						Ì
OIL G	GAS			·		
well X	WELL	OT	HER			
2. Name of Operator				8. Well No		
Primal Energy Corporation	·				1	
3. Address of Operator				9. Peol nar	ne or Wildcat	
211 Highland Cross, Suite #227, Hou	uston, TX 77073			Southe	ast Denton - Devonian	
4. Well Location						
Unit Letter :	3627 Feet From The N	Line and	1425 Feet From The E	Line		
Section 1	Township 16S	Rang	ge 38E NMPM		Lea Coun	aty
	10 Elevation (Show whe	ther DF, RKB, R	T, GR, etc.)			
		3717' GR				
•	Check Appropriate Box	to Indicate N	Nature of Notice, Report, or Ot	her Data		
NOTICE	OF INTENTION TO:		SUBSE	QUENT R	EPORT OF:	
	<u></u>	_				
PERFORM REMEDIAL WORK	PLUG AND ABANDO	N	REMEDIAL WORK	x	ALTERING CASING	Ш
TEMPORARILY ABANDON	CHANGE PLANS	П	COMMENCE DRILLING OPNS.		PLUG & ABANDONMENT	
		ب		<u></u>		-
PULL OR ALTER CASING			CASING TEST & CEMENT JOB			
OTHER:			OTHER:			
•	Operations (Clearly state all pertinent details, ar	nd give pertinent a	lates, including estimated date of starting a	iny proposed		
work) SEE RULE 1103.						
	0 1 1 5(4/2001					
1. Pulled production strin						
_	sh and retreived 1 1/2 joints tubing	-				
	e made furthur fishing impossible					
4 Shut well in; evaluating	tox possible side track.					
(}					
I hereby certify that the information a	boy true and complete to the best of my know	wiedge and belief.				
SIGNATURE SIGNATURE	oran -	TITLE Man	ager, Operations and Engineering		DATE_05/08/01	 -
ΓΙ	the Alexander					
	ohn Abernethy				TELEPHONE NO. 281-821-5600	
(This space for State Use)						

TITLE

DATE ______

PO Box 1980, Hobbs, NM 88241-1980

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C -101 Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

2040 South Pache	eco, Santa Fe	NM 87505						☐ AMENDE	D REPORT	
APPLIC/	ATION FO	R PERMIT	TO DRILL	., RE-ENT	ER, DEEPE	N, PLUGB	ACK, OF	R ADD A ZON	ΙE	
			or Name and Ad		· · · · · · · · · · · · · · · · · · ·			² OGRID Numb		
Р	rimal Ene	rgy Corpor	ation					142316		
2	11 Highla	nd Cross, S	Suite #227				3,	API Number		
Н	louston, T	X 77073						30-025-33	177	
⁴ Property Code ⁵ Property Name							⁶ Well No.			
17759			Knowles					1		
			⁷ Su	rface Loca	tion					
UL or let no.	Section	Township	Range	Lot Idn	Feet from the	N/S Line	Feet from	the E/W Line	County	
J	1	16S	38E	10	3,627	N _.	1,425	E	Lea	
	9 ⁸	roposed Bo	ttom Hole	Location If	Different F	rom Surfac	:е			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	N/S Line	Feet from	1	County	
1	1	16S Proposed Poo	38E	9	3,940	N	1,246		Lea	
c	Couthoost	Denton-De					¹⁰ Propose	a Pool 2		
	oui leasi	Denion-De	vonian	_	1					
13Work T	ype Code	12Well	Type Code	13 _C	able/Rotary	¹⁴ l ea	se Type Cor	de 15Ground I	evel Elevation	
D	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	R		¹⁴Lease Type Code S		3,717'		
	lultiple				19Contractor		⁸⁰ Spud Date			
N	·	13,100' De		Devonian	Devonian Basi		c 6/18/01			
		²¹ Pro	posed Casi	ng and Ce	menting Pro	ogram				
Hole Size	Casing Size		weight/foot		ting Depth		of Cement	Estir	nated TOC	
	3 3/8"	Existing								
	3 5/8"	Existing								
	5 1/2"	Existing								
	3 1/2"			13'100' M		100		44 450LT	11 150 TO	
4 3/4" 3	0 1/2	9.2 ppf		13 100 141	<u> </u>	130 sx.		11,150 10	11,150' TOL	
22 Describe the p	roposed progr	em. If this applic	ation is to DEE	DEN or PLUG	BACK give the	ata on the pres	ent zone an	d proposed new pro	nductive	
zone. Describe ti					-	iaua on the pres	ent zone an	ia proposed new pro	Jaucu*6	
1. Set retain			•			ns and line	er with 1	50 sx.		
2. Set whips										
3.Directiona		-								
4. Run and	cement 3	1/2" liner a	nd complet	te in Devor	nian.					
)								
"Thereby dertify th	at the information	on given above is t	rue and complete	to the best	<u> </u>					
of my knowledge a	and belief.	4		_		OIL CONS	ERVAT	ION DIVISION	١	
Signatur	1	lu.		2	Approved by:					
Printed name:				$\overline{}$	Title:					
	John Aber	nethy								
Title:					31	Approval Date		Expiration D	ate:	

DISTRICT I

State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-102

Revised October 18, 1994

Instructions on back

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

DISTRICT III

DISTRICT II

2040 South Pacheco

State Lease - 4 Copies

AMENDED REPORT

1000 Rio Brazos Rd., Aztec, NM 87410

811 South First, Artesia, NM 88210

PO Box 1980, Hobbs, NM 88241-1980

Santa Fe, NM 87505

Fee Lease - 3 Copies

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

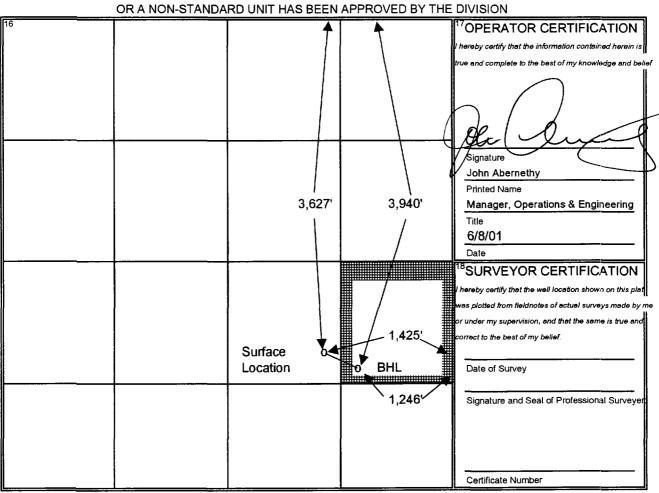
WELL LOCATION AND ACREAGE DEDICATION PLAT

		() ((()) (() () () () (()			
¹ API Number	² Pool Code	³ Pool Name			
30-025-33177	96644	Southeast Denton-Devonian			
⁴ Property Code	⁵ Prop	⁵ Property Name			
17759	Knowles		1		
⁷ OGRID No.	* Op	⁸ Operator Name			
# 142316	Primal Energy Corporation	3,717'			

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
J	1	16S	38E	10	3,627	N	1,425	E	Lea
			11	Bottom Ho	le Location I	Different From	Surface		
JL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
1	1	16\$	38E	9	3,940	N	1,246	E	Lea
² Dedicated A	Acres 13	Joint or Infi	II 14 Co	nsolidation Co	de ¹⁵ Order No.				
40	n I	N							

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11415 ORDER NO. R-10509

APPLICATION OF BROWNING OIL COMPANY, INC. FOR AN UNORTHODOX OIL WELL LOCATION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on November 2, 1995, in Roswell, New Mexico, before Examiner Michael E. Stogner.

NOW, on this __7th__ day of November, 1995, the Division Director, having considered the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) The applicant, Browning Oil Company, Inc., seeks approval of an unorthodox oil well location for its Knowles Well No. 1 to be drilled 3627 feet from the North line and 1425 feet from the East line (Lot 10/Unit I) of irregular Section 1, Township 16 South, Range 38 East, NMPM, to test the Devonian formation, Lea County, New Mexico.
- (3) The proposed well location is not within one mile of any designated Devonian pool and is therefore classified as a "wildcat oil well" and is subject to the Division's Statewide Rules and Regulations which require standard 40-acre spacing and proration units with wells to be located no closer than 330 feet from the outer boundary of the spacing unit.
- (4) Lot 10 of said Section 1 is to be dedicated to said well to form a standard 40-acre oil spacing and proration unit.

- (5) This case was styled such that in the absence of objection this case would be taken under advisement.
 - (6) No appearances were made in this case at the time of the hearing.
- (7) All acreage offsetting the proposed 40-acre tract is within the same State lease (New Mexico State Land Office Oil and Gas Lease No. VA-1222) as the subject tract. Therefore, pursuant to Division Rule 1207.A(5), no notice was required by the applicant to any offset operator and/or interest owner in this case.
- (8) The applicant submitted a geological interpretation based upon well control and surface seismic data of the Devonian formation in the immediate area which indicates that a well drilled at the proposed unorthodox location should penetrate a small localized structure within the Devonian formation at a more advantageous position than a well drilled at a standard oil well location within the subject 40-acre tract, thereby increasing the likelihood of obtaining commercial production.
- (9) Approval of this application will afford the applicant the opportunity to test for and, if successful, produce its just and equitable share of the oil in the Devonian formation, will 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.

IT IS THEREFORE ORDERED THAT:

- (1) The application of Browning Oil Company, Inc. to drill its Knowles Well No. 1 at an unorthodox oil well location 3627 feet from the North line and 1425 feet from the East line (Lot 10/Unit J) of irregular Section 1, Township 16 South, Range 38 East, NMPM, in order to adequately test the Devonian formation, Lea County, New Mexico, is hereby approved.
- (2) Lot 10 of said Section 1 shall be dedicated to said well forming a standard 40-acre oil spacing and proration unit.
- (3) Jurisdiction is hereby 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

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সালি সাম কেন্দ্ৰ । জুলী গো**লচা**চ, আগইৰ । তা



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

July 31, 2001

Lori Wrotenbery
Director
Oil Conservation Division

Primal Energy Corporation 211 Highland Cross - Suite 227 Houston, Texas 77073

Attention:

John Abernethy

Re:

Administrative application for a subsurface well location exception for Primal Energy Corporation's Knowles Well No. 1 (API No. 30-025-33177) at an unorthodox bottomhole oil well location 3940' FNL & 1246' FEL (Lot 9/Unit I) of irregular Section 1, Township 16 South, Range 38 East, NMPM, Southeast Denton-Devonian Pool, Lea County, New Mexico.

Dear Mr. Abernethy:

I have reviewed the information provided me on June 22 and July 6, 2001, which was submitted as Primal's request for an unorthodox subsurface Devonian oil well location within a 40-acre oil spacing and proration unit comprising Lot 9 (Unit I) of Section 1.

Our preliminary review indicates that the information provided in the application is not sufficient to process an administrative order. Please provide proof of notice per Division Rule 1207.A (2) or satisfactory explanation as to why notice is not necessary in this instance.

Thank you for your cooperation in this matter.

Sincerely

Michael E. Stogner Chief Hearing Officer/Engineer

cc: New Mexico Oil Conservation Division – Hobbs

OIL CONSERVATION DIVISION

TELEPHONE LOG

COMPANY NAME: Primal Energy Company Company
PROPERTY NAME: Knewles Will No. 1
RESPONSIBLE OFFICIAL:
APPLICATION NUMBER:
NAME OF ENGINEER:
Jallut le 8-6-01 DATE GALLED: TIME CALLED:
NOTES: Nathul w/ Kathlun Bini
VA-1222 compriendly Sec. 1
75% B+ W Southern
25% Primal
State CS
100% Common Changerel

Page: 1 Document Name: untitled

CMD : OG5SECT

ONGARD

INQUIRE LAND BY SECTION

07/31/01 11:36:27 OGOMES -TQKG

PAGE NO: 1

Sec : 01 Twp : 16S Rng : 38E Section Type : LONG

12 4 5	11 3 6	10 2 7	1 8 9
40.00 53.38 40.00	40.00 53.32 40.00	40.00 53.28 40.00	53.22 40.00 40.00
CS CS CS	CS CS CS	CS CS CS	CS CS CS
VA1222 0002	VA1222 0002	VA1222 0002	VA1222 0002
B & W SOUTHERN PE			
06/01/99	06/01/99	06/01/99	06/01/99
		A	
13	14	15	16
40.00	40.00	40.00	40.00
CS	CS	CS	CS
VA1222 0002	VA1222 0002	VA1222 0002	VA1222 0002
B & W SOUTHERN PE			
06/01/99	06/01/99	06/01/99	06/01/99
F01 HELP PF02	PF03 EXIT PI	704 GoTo PF05	PF06
F07 BKWD PF08 FWI	PF09 PRINT P	710 SDIV PF11	PF12

Date: 7/31/2001 Time: 12:06:02 PM

Page: 1 Document Name: untitled

CMD : OG5SECT

ONGARD

INQUIRE LAND BY SECTION

07/31/01 11:36:30

OGOMES -TQKG

PAGE NO: 2

Sec : 01 Twp : 16S Rng : 38E Section Type : LONG

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VA1222 0002	VA1222 0002	VA1222 0002	VA1222 0002
B & W SOUTHERN PE	B & W SOUTHERN PE	B & W SOUTHERN PE	B & W SOUTHERN PE
06/01/99	06/01/99	06/01/99	06/01/99
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CS	CS	CS	CS
VA1222 0002	VA1222 0002	VA1222 0002	VA1222 0002
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i			
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PF07 BKWD PF08 FWI	PF09 PRINT PE	F10 SDIV PF11	PF12

Date: 7/31/2001 Time: 12:06:04 PM

TOWNSHIP	16 South	RANGE 38 E	ast	NMPM	
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Page: 1 Document Name: untitled

ONGARD CMD :

OGOMES -TQKC OG6IWCM INQUIRE WELL COMPLETIONS

07/31/01 11:37:55

Pool Idn : 96644 DENTON; DEVONIAN, SOUTHEAST OGRID Idn : 154303 PRIMAL ENERGY CORPORATION

Prop Idn : 26911 KNOWLES

Well No : 001 GL Elevation: 3717

U/L Sec Township Range North/South East/West Prop/Act(P/A)

--- --- ---- ----- ------

B.H. Locn : 10 1 16S 38E FTG 3691 F N FTG 1928 F E A

Lot Identifier:

Dedicated Acre: 40.00

Lease Type : S

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

M0025: Enter PF keys to scroll

 PF01 HELP
 PF02
 PF03 EXIT
 PF04 GoTo
 PF05
 PF06

 PF07 PF08
 PF09 PF09
 PF10 NEXT-WC
 PF11 HISTORY
 PF12

PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

Date: 7/31/2001 Time: 12:07:30 PM

Page: 1 Document Name: untitled

07/31/01 11:37:47 CMD : ONGARD

C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TOKE OG6C101

OGRID Idn : 154303 API Well No: 30 25 33177 APD Status(A/C/P): A

Opr Name, Addr: PRIMAL ENERGY CORPORATION Aprvl/Cncl Date : 11-01-2000

211 HIGHLAND CROSS

STE 227

HOUSTON, TX 77073

Prop Idn: 26911 KNOWLES Well No: 1

U/L Sec Township Range Lot Idn North/South East/West

Surface Locn: 10 1 16S 38E FTG 3627 F N FTG 1425 F E

OCD U/L : J API County : 25

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): O Cable/Rotary (C/R) : F

Lease typ(F/S/P/N/J/U/I): S Ground Level Elevation: 3717

Multiple Comp (S/M/C) : S State Lease No:

Prpsd Depth : 13053 Prpsd Frmtn : DEVONIAN

E0009: Enter data to modify record

 PF01
 HELP
 PF02
 PF03
 EXIT
 PF04
 GoTo
 PF05
 PF06
 CONFIRM

 PF07
 PF08
 PF09
 PRINT
 PF10
 C102
 PF11
 HISTORY
 PF12

Date: 7/31/2001 Time: 12:07:23 PM

Page: 1 Document Name: untitled

CMD : ONGARD 07/31/01 14:21:21

OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TQKG

Page No: 1

OGRID Identifier: 154303 PRIMAL ENERGY CORPORATION

Pool Identifier : 96644 DENTON; DEVONIAN, SOUTHEAST

API Well No : 30 25 33177 Report Period - From : 11 1995 To : 06 2001

API	Wel	l No	Property Na	me	Pro	odn.	Days	Product	ion Volum	nes	Well
					MM/	'YY	Prod	Gas	Oil	Water	Stat
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30	25	33177	KNOWLES		12	00	6	44	124	170	P
30	25	33177	KNOWLES		01	01	5			790	P
30	25	33177	KNOWLES		02	01					S
30	25	33177	KNOWLES		03	01					S
30	25	33177	KNOWLES		04	01					S
30	25	33177	KNOWLES		05	01					S
									. – – – – – – .		
		Repo	orting Period	.Total (Gas,	Oil	:	44	124	960	

M0025: Enter PF keys to scroll

PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM PF01 HELP PF02 PF07 BKWD PF08 FWD

PF09 PF10 NXTPOOL PF11 NXTOGD PF12

Date: 7/31/2001 Time: 02:50:59 PM

submit 3 Copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103

to Appropriate District Office

DISTRICT I

PO Box 1980, Hobbs, NM 88241-1980

DISTRICT II

PO Drawer DD, Artesia, NM 88210

DISTRICT III

1. Type of Well: OIL

WELL

2. Name of Operator

3. Address of Operator

4. Well Location

1000 Rio Brazos Rd., Aztec, NM 87410

Revised 1-1-89 OIL CONSERVATION DIVISION 2040 Pacheco St. WELL API NO. Santa Fe, NM 87505 30-025-33177 5. Indicate Type of Lease FEE STATE 6. State Oil & Gas Lease No. V-1222 SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) Knowles GAS WELL 8. Well No. Primal Energy Corporation 9. Pool name or Wildcat 211 Highland Cross, Suite #227, Houston, TX 77073 Southeast Denton - Devonian Unit Letter J : 3627 Feet From The N Line and 1425 Feet From The E Township Range NMPM County 10 Elevation (Show whether DF, RKB, RT, GR, etc.)

		3117	OIC				
	Ch	neck Appropriate Box to Inc	dicate N	Vature of Notice, Report, or C	ther Data	· · · · · · · · · · · · · · · · · · ·	
NOTICE	OF INTE	NTION TO:		SUBSI	EQUENT R	EPORT OF:	
PERFORM REMEDIAL WORK	x	PLUG AND ABANDON		REMEDIAL WORK		ALTERING CASING	
TEMPORARILY ABANDON		CHANGE PLANS		COMMENCE DRILLING OPNS		PLUG & ABANDONMENT	
PULL OR ALTER CASING				CASING TEST & CEMENT JOB			
OTHER:				OTHER:			П
12. Describe Proposed or Completed O	perations (Clear	ly state all pertinent details, and give	pertinent d	ates, including estimated date of starting	any proposed		

- work) SEE RULE 1103.
- 1. Pull production string from hole.

2. Locate source of water entry and eliminate.

3. Remove tubing fish fron hole and clean out to original ?	ΓD.	
4 Returned well to production.		
I hereby certify that the information above is true and complete to the best of my known	owledge and belief.	
SIGNATURE THE SIGNATURE	TITLE Manager, Operations and Engineering	DATE_03/20/01
TYPE OR PRINT NAME John Abernethy		TELEPHONE NO. 281-821-5600
(This space for State Use) APPROVED BY Hay Walk	TITLE	DATE 122 - 22
CONDITIONS OF APPROVAL. IF WY:	FIELD REPRESENTATIVE II	-

District I State of New Mexico Po Box 1998, States, NM 98341-1988 Energy, Masteria & Nutrical Resources Dep

PO Drawer DD, Artesia, NM 98211-9719 District III

OIL CONSERVATION DIVISION Submit to Appropriate District Offic

Form C-10 Revised February 10, 199 Instructions on bac

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District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Departm

Form C-104 Revised October 18, 1994

District [] \$11 South First, Artesia, NM 88210 District III

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Instructions on back Submit to Appropriate District Office 5 Copies

1000 Rio Brazos Rd., Aztec, NM 87410 District IV

MAMENDED REPORT

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Hobbs, NM 88241-1980

DISTRICT II
P. O. Drawer DD
Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd. Aztec, NM 87410

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

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

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X AMENDED REPORT

DISTRICT IV
P. O. Box 2088
South Fe NM 87507-2088

TO COMMON AND ACREACE DEDICATION DIAG

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District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-104 Revised October 18, 1994

District II OIL CONSERVATION DIVISION \$11 South First, Artesia, NM 88210

Previous Operator Signature

Instructions on back Submit to Appropriate District Office

istrict III	5.3	NO. 00410			South Pa					5 Copies
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			Operator nam	e and Address					' OGRID Nu	mber
Browni	ina Oil	Company	v. Inc. D	HIS WELL HAS	S REEN EU	***		1.	12316	
D. O	Dov. 60	6 Cid	dings T	HIS WELL HAS COIGNATED BY CYLEY FHY894 exas FHY894	LOVE IF Y	OU LO ME	HE POOL	31	Reuson for Fili	ng Code
P. O.	DOX 00	o, Gia	anigs, i	CAGO 705.	merce.	20 140	CONCH	· 1/1	N	
	PI Number					Name				* Pool Code
30 - 0 25	33177	1	W	ildcat	Devo	nian			1 46	644
, Pro	operty Code			· — · · · · · · · · · · · · · · · · · ·		rty Name				Well Number
177	759	1	K	nowles		•			1	
		Location								
Ul or lot no.	Section	Township	Range	Lot.Idn	feet from the	North	/South Line	Feet from the	East/West lis	ne County
J	1	16 Sout	h 38E	10	3627	N _C	orth	1425	East	Lea
	<u> </u>									
		Hole Loc		7 -4 14-	Feet from th	. Need	n/South line	Post from the	Frankline II	
UL or lot no.	Section	Township	Range 38e	Lot Idn	3691		NSOULD LINE	Feet from the 1928	Enst/West lin	
/		lbs	استنسباب					<u> </u>		lea
12 Lse Code	" Produci	ng Method C	ode "Gas	Connection Date	" C-129	Permit Num	ber	" C-129 Effective	Date "	C-129 Expiration Date
S		mping			<u> </u>		l			
		Transpor								·
Transpo OGRID		•	Transporter I and Addres			» POD	" O/G	1	POD ULSTI and Descr	
	/ 	0	. 1		120	10.00		 	ind Desci	.pr.km
1761		Basis M	etroleida	Inc.		18123	10			
		500 Dall	las Ave.	Suite 32	200					
			Texas							
Reserved to the second	C.E	SINCHE	ur, caas fii	10 100	-	rang para Kalan	and the property of the	-		
Salan XX		10 F CS 3 C	3 0 O 1 1	18 14 6				33		
	liji	NEESO A	a excepti	on to R-40	i Pie					
	15	OBTAIN	ED.				S. Moster			
		 			7			4		
1					İ		l	1		
Marie Commence										
										
	luced W	ater								
	POD	l			-1	POD ULSTR	Location and	Description		
28181		L								
		etion Dat								·
" Sp	ud Date		* Ready Date		מד "	ł	PBTD	³⁹ Perfo		» DHC, DC,MC
11/18/			8/96	13,		13,0		12,955	-13,053	<u> </u>
	31 Hole Siz	ie .	, n	Casing & Tubin	g Size	 	³⁵ Depth	Set		Sacks Cement
17.1/	/2"		13 3,	/8" 54.4#		400			418	
11"				/8" 32#		5,01	3'		2020	
 				/2" 17#		12,0			2174	
7 7/8								 		
7 7/8			4 1,	/2"		11,7	49'(tor	0)-12,983'	150 (squeeze 230)
	ll Test I									
1 Date	New Oil	≫ Gas	Delivery Date		st Date	i	est Length	· * Thg.	Freeture	** Cag. Pressure
8/29/	96			10/20/			4 hrs	-		10#
" CP	oke Size		41 Off	47	Vater	1	" Gas		róà.	* Test Method
-		13	88 bbls	8	bb1s	TS	IM			Pumping
				Division have been			~-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
with and that knowledge a		nou Riveu apo.	VE IS LITUE AND CO	omplete to the best	or my		yn_/c	ONSERVA	PION DI	NOISION
Signature:	1	YOTKI.	~ Por	trold		Approved by	: (/ 1	16.0 /-		
Printed name	<u> </u>		<u> </u>	- - 00 00		Title: /	JY!	MENT		
<u> </u>	Betty	Petzolo	<u>~</u>				Dis	MIN 1 91	<u> </u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Title:	Prod.	Technic	cian			Approval Da	re: MOA	08 1995		in it
Date:	10/21/			(409) 542-	-3144					
If this is				number and nam		rious operator				
H					P-4					

Printed Name

Title

State of New Mexico

Submit to Appropriate District Office State Lease 6 conse		Energy,	Minerals and I		sources Dep	partment				m C-105 rised 1-1-89
Fee Lease 5 copies DISTRICT I P.O. Box 1980, Hobb		OIL	CONSERV 2040 Pag	OITAV		SION	WELL AP	30 025		
DISTRICT II		110 m	Santa Fe	_			5. Indicat	te Type of Lease	TATE X	FEE
P.O. Drawer DD, Arte	ma, NM 88210		-	-			6. State C	Dil & Gas Lease		PEE _
DISTRICT III 1000 Rio Brazos Rd.,	Aztec, NM 87410							V-1222		
WELL	COMPLETION	OR REC	OMPLETION	REPORT	AND LO	3				
la. Type of Well: OIL WELL	y GAS WE	цП п	RY OTHE	TR.			7. Lease	Name or Unit A	greement	Name
_								Knowles		
b. Type of Completio	K (-)	FLUG BACK	DET	OTHER				MIOWIES		
2. Name of Operator							8. Weil N	la.		
Browning O	il Company,	Inc.						1		
3. Address of Operato								ame or Wildcat		
P.O. Box 6	86, Gidding	s, Texa	s 78942				W	ildcat		
	л. 362	7			Time on	4 1425	. 12	or Comp. The	Tr	Lin
BHL Unit Letter	36	? [142	(8 - '	er Lioni ine _	Ë	
Section	1		ip 16 Sout				MPM	Lea		County
10. Date Spudded	11. Date T.D. Res		Date Compi. (Re	ady to Prod.)	13.	Elevations (D	F& RKB. R	Γ, GR, etc.)	14. Elev.	Casinghead
11/18/95	6/25/96		10/18/9				3732			717'
5. Total Depth 13,053'	16. Plug B	.3,053'	17. If Mi Many	Liple Compl. Zones?	. How	18. Intervals Drilled E	Rotary	roots X	Cable To	aioc
9. Producing Interval(s			m, Name	- :-	L			20. Was Din	octional Su	rvey Made
12,955' - 1	13,053' - D	evonian							No	
1. Type Electric and O	-						22. Was	Weil Cored		
DIL-GR-SP-S	Sonic							NO		
CASDIG STE	SEICIEL I		NG RECOR					7 750070		
CASING SIZE	WEIGHT I 54.4#	DJF1.	<u>400'</u>		OLE SIZE 7 1/2"		sks Cla	RECORD	AM	OUNT PULLE
8 5/8"	32#		5013'		11"		sks C			
5 1/2"	17#		12018		7 7/8"		sks Po			
			· · ·							
(LINER	RECORD			25.		TUBING RE	CORD	
SIZE	ТОР	BOTT		CEMENT	SCREE		SIZE	DEPTI		PACKER SE
4 1/2"	11,749'	12,983	3' 150 s	sks H		2	7/8 "	10.0	23'	
Perforation reco	and (internal sin	and man	<u> </u>	1	1 - AC	D SHOT	ED ACTO	TOP CENTER	ATT COL	ICESE ESC
	•		Da)			D. SHUI,		OUNT AND KI		JEEZE, ETC. ERIAL LISED
12,955'-12,	,973 ' (72 h	oles)				5-13.05		.500 gal		
12,983'-13,	.053 ' Open i	Hole								
			DDOI	NI CETO	NT.			-,		
8. late First Production		Production M	PKUI	DUCTIO		has pure)		Well Sta	ms (Prod.	or Shut-in)
8/29/96	l P		1 1/2" Ro					į	roduci	•
ate of Test	Hours Tested	Choke	· · · · · · · · · · · · · · · · · · ·)ii - BЫ.	Gas - M	ICF .	Water - Bbi.		Gas - Oil Ratio
L0/20/96	24			Period	138		STM	8	<u> </u>	
ow Tubing Press.	Casing Pressure	Hour	ated 24- Oil - Rate	Bbl.	Gas - MC	2F₩	nter - BbL	I	vity - API 6.3	- (Corr.)
Disposition of Gas (S	old, used for fuel, w	ented, etc.)			<u> </u>		Test	Witnessed By		
Used for fu	• •							oug Jatz	Lau	
List Attachments										
. I hereby certify that	t the information		ek piden af skie f			en che han	of me ha-	wladaa and L-	المعدد	 -
. I nerewy certyly that	\cdot	0 1	in succes by this fo	um is itue e	ин соприн	. W INE DESI	oj ing knor	~=uze wie de	me)	
K	The Pa	trold	Printed	Betty P	etzold	- Target	Pro	d. Tech.	n	10/21/96
Signature	\sim	<u> </u>	Name .			11	uc		Date	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-dril or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all spec tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, to vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeaste	rn New Mexico		Northwes	tern New Mexico	
35	T. Canyon	T. Ojo Alan		T. Penn. "B"	_
		T. Kirtland-	Fruitland	T. Penn. "C"	_
1 ^					
		T. Point Loc	kout	T. Elbert	_
	T. Montova	T. Mancos _		T. McCracken	_
5023	T. Simpson	T. Gallup		T. Ignacio Otzte	
	T. McKee	Base Greenh	IOITI	T. Granite	
	T. Gr. Wash	T. Morrison		Т	
7610	T. Delaware Sand	T. Todilto		Т	
7740	T. Bone Springs	T. Entrada		Т	
8265	Т.	T. Wingate		T	
9570	т	T. Chinle		Т.	
	T T	T. Permain		Т.	
Δ	- ÷	T Penn "A"		Т.	_
ute of water inf	IMPORTAN low and elevation to which water to	T WATER SA rose in hole.	NDS	••••••••••••••••••••••••••••••••	•
Thickness	Lithology		Thickness	Lithology	_
	35 10 5023 6425 7610 7740 8265 9570 C) ,955 (12,94) the of water infi	T. Strawn 11,194 T. Atoka 11,398 T. Miss 11,686 T. Devonian T. Silurian 12,955 T. Montoya 5023 T. Simpson 6425 T. McKee T. Ellenburger T. Gr. Wash T. Delaware Sand 7740 T. Bone Springs 8265 T. 9570 T. T. C) T. C) T. C) T. C) T. C) IMPORTAN the of water inflow and elevation to which water to. LITHOLOGY RECORD Thickness Lithology	T. Canyon	T. Canyon	T. Canyon

Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

OH CONCEDVATION DIVISION

Form C-103. Revised 1-1-89

P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION 2040 Pacheco St.	WELL API NO.
DISTRICT II Santa Fe, NM 87505	30 025 33177
P.O. Drawer DD, Artesia, NM 88210	5. Indicate Type of Lease STATE X FEE
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410	6. State Oil & Gas Lease No. V-1222
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" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name
1. Type of Well: Oil. GAS WELL WELL OTHER	Knowles
2. Name of Operator	8. Well No.
Browning Oil Company, Inc. 3. Address of Operator	9. Pool name or Wildcat
P. O. Box 686, Giddings, Texas 78942	Wildcat
4. Well Location Unit Letter J : 3627 Feet From The North Line and 1425	·
Section 1 Township 16 South Range 38# 1	NMPM Lea County
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	
State Assessment Power Vision News of Vision Power of Vision P	
Check Appropriate Box to Indicate Nature of Notice, Re NOTICE OF INTENTION TO: SUB	SEQUENT REPORT OF:
NOTICE OF INTENTION TO.	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING	OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING CASING TEST AND CE	MENT JOB
OTHER: OTHER:	
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, include work) SEE RULE 1103.	ing estimated date of starting any proposed
9/11/96 - 9/16/96 - Swab tested well.	
10/10/96-10/17/96 - MIRU workover rig. Attempted to pull CST Run free point survey w/WL - 2 3/8" tail pipe stuck below pack not get tool below 12,582' due to obstruction in 2 3/8" tbg. 12,536'. Left 14 1/2" jts 2 3/8" tubing in hole. Top @ 12,53& packer. RIH w/BHA & tubing. RIH w/pump & rods. Pump @ 9,9 Erect tank battery. Put well on production.	Ser @ or below 12,582'. Could Jet cut 2 3/8" tubing @ 36', end @ 12,984'. POH w/tbg
I hereby certify that the information above is true and complete to the best of my knowledge and belief. THE Prod. Techn.	nician 10/21/96
SKONATURE BOTTLE Prod. Techn	
Rott. Petald Prod Tochr	nician DATE 10/21/96 (409) 542-3144 TELEPHONE NO.
SKINATURE BOTTLE Petrold Prod. Techn	(409) 542-3144 TELEPHONE NO. 542-3144

Browning Oil Company, Inc. Knowles #1 Attachment to Form C-103

(12.)

3/1/96 - 4/15/96 -- MIRU completion rig - Drill out stage tools @ 5,067' & 10,547' (TM) - Drill out float collar @ 11,972' (TM), shoe joint, & float shoe - Clean out open hole f/ 12,018' to TD @ 12,990' (TM) - Run 29 jts. 4-1/2" 11.5# L-80 FL4S liner - Set @ 12,983' - Top @ 11,749' - Cement w/ 150 sx Class H + .6% D60 + .2% D13 (16.4 ppg, 1.07 cf/sk) - Back off liner top @ 11,749' - Run CBL/GR/CL log f/ 12,854'-11,600' - Clean cement top @ 12,590' - Shoot squeeze perfs @ 12,570' - Set cement retainer @ 12,510' - RIH w/ tubing - Squeeze w/ 230 sx Class H + .3% D13 + .3% D65 + 5% D156 (15.6 ppg, 1.19 cf/sk) - WOC - Drill out cement and retainer - Test to 2000 psi - Drill out float collar, shoe joint, & float shoe - Clean out open hole f/ 12,983'-12,990' - Ran CN/GR log f/ 12,990'-11,500' - Ran CBL f/ 12,956'-11,650' - Perforate 4-1/2" in Devonian @ 12,955'-12,973' (4 SPF, 72 holes) - RIH w/ packer & tubing - Set packer @ 11,662' - Swab test well - Acidize w/ 3,000 gal. 20% HCl - Could not break down formation - POH w/ tubing & packer - RIH w/ 3-7/8" bit - Drill formation f/ 12,990'-13,010' - RIH w/ packer & tubing - Swab test well - Acidize w/ 2,500 gal. 15% HCl - Swabbed - POH w/ tubing & packer - RIH w/ 3-7/8" bit - Drilled formation f/ 13,010'-13,033' - RIH w/ packer & tubing - Swabbed - Acidize w/ 2,500 gal 20% HCl - Swabbed - RDMO

<u>4/16/96 - 6/23/96</u> -- Shut in.

6/24/96 - 7/17/96 -- MIRU - POH w/ tubing & packer - RIH w/ 3-7/8" bit - Drill formation f/ 13,033'-13,053' - POH w/ bit - Perforate open hole @ 12,099'-13,053' (108 shots) - Hydro test in hole w/ packer & tubing - Acidize w/ 2,500 gal 20% HCl - Swabbed - Ran temperature and tracer surveys - Acidized w/ 10,000 gal. 20% HCl - Swabbed - RDMO

7/18/96- 8/29/96 - Shut in.

8/29/96 -- 800 psi SIP - Opened well to bleed off pressure - Well started making fluid - Switch to test tank

8/30/96 -- 79 bbls. Oil

8/31/96 -- 20 bbls. Oil

9/1/96 -- 20 bbls. Oil

9/2/96 -- 15 bbls. Oil

9/3/96 -- 20 bbls. Oil

<u>Present Operation:</u> Flowing to test tank & evaluating.

to Appropriate District Office	2.00 g), 1/12.00 a) a 1/10.			vestant 1-1-03
averalCT i		TION DIVISION	WELL API NO.	
P.O. Box 1980, Hobbs, NM 88240	P.O. Bo	ox 2088	30 025 331	77
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mo	exico 87504-2088	5 Indicate Type of Lease	
DISTRICT III				TATE X FEE
1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease N V-1222	
	TICES AND REPORTS ON			
	PROPOSALS TO DRILL OR TO DE SERVOIR. USE "APPLICATION R I C-101) FOR SUCH PROPOSALS	OR PERMIT	7. Lease Name or Unit Ag	reement Name
1. Type of Weil:	TO TOTAL TOTAL CONTEST	2-1	-	. ~~
OIL XX WELL	OTHER		Kno	wles
2. Name of Operator Browning Oil Comp	pany, Inc.		8. Weil No.	
3. Address of Operator			9. Pool name or Wildcat	
P. O. Box 686, Gi	iddings, Texas 78942		Wildcat	
4. Well Location		7.40	_	-
Unit Letter :36	527 Feet From The North	Line and142	5 Feet From The	East Line
Section 1	Township 16	Range 38 East	nmpm Lea	County
	10. Elevation (Show w 3717)	heiher DF, RKB, RT, GR, etc.)		
Check	Appropriate Box to India		enort or Other Data	
	NTENTION TO:	· · · · · · · · · · · · · · · · · · ·	SEQUENT REPOR	OT OE
NOTICE OF IN	TENTION TO.	300	SEQUENT REPOR	11 OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERI	NG CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS. DPLUG A	ND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CE	MENT JOB	
OTHER:		OTHER:		
12. Describe Proposed or Completed Operwork) SEE RULE 1103.	rations (Clearly state all pertinent det	ails, and give pertinent dates, inclu	ding estimated date of starting of	any proposed
12/11/96-2/21/96 - Dril	1 7 7/8" hole to 968	2'. Took survey at	9660'. Angle ha	d increased to
6°. Changed bottomhole	assy to drop angle (no directional cont	rol). Angle dropp	ed to 3°, but
hole direction was away	from seismic target	and surface location	on. Directionally	y drilled with
mud motor from 12,484-1	2703'. Steered hole	toward surface loca	tion. Drilled from	n 12,703-12,994
without directional con	itrol. Attempted to r	un Drill Stem Test	(DST) on zone 12,	974-12,994'.
Had drill pipe failure tools and 5 drill colla	ers in hole left too	of fish at 12 750!	Sot coment plug	out lest DST
12,653'. Sidetracked we	ell at 12.578'. Direct	tionally steered sig	. Set Cement prog Betrack hole to t:	arget hetween
old bottom hole location	n and surface location	on. Attempted to lo	and run casing l	out were
unable to get below 12,	200' due to hole pro	blems. Set 281 jts	5 1/2" 17# L-80 d	casing @
12,018'. Hyd stage too	1 @ 10,547', DV tool	@ 5067'. Cmnt 1st	stage $w/500 \text{ sx } 50$	0/50 Poz/H
+ 2% D20 + 5% D44 +.2%D	59 + .25% D65 + .2%D8	800 (14.6 ppg,1.27 <u>y</u>	ield, 113 bbls sl	lurry).
Open Hyd stage tool @ 2 Dl3+5%D44+ 25#/sk D29 (900 psi. Cmnt 2nd st	tage-Lead slurry: 1()00 sx 35/65 Poz/F	I+6%D20+.1%
D13+5%D44+.25#/sk D29 (Tall Sturry: 18	/ sx (cont on 2)
I hereby certify that the information above is tru		ge and belief. Prod. Asst.		3/6/96
SIGNATURE DULL	Petrold	mu	DATE	370/30
TYPEOR PRINT NAME Betty Po	etzold		TELET	HONE NO. (409) 542-
(This space for State Use)				
Lun	a delle	DISTRICT 1 S	M Supervisor	AR 22 1996

Browning Oil Company, Inc. Knowles Well No. 1 From C-103 Attachment Page 2

50/50 Poz/H+2%D20+5%D44+.6%D59+.25%D65+.2%D800 (14.6 ppg, 1.27 yield, 43 bbls slurry). Open DV tool @ 5067'. Cement 3rd stage - Lead slurry: 300 sx 35/65 PozH + 6% D20 + .1% D13 + 5% D44 + .25#/sk D29 (12.4 ppg, 2.14 yield, 114 bbls slurry). Tail: 187 sx 50/50 Poz/H + 2% D20 + 5% D44 + 6% D59 + .25% D65 + .2% D800 (14.6 ppg, 1.27 yield, 40 bbls slurry). Rig released 2/21/96.

Currently running a liner to attempt a completion. Will file additional Form C-103 upon setting of this liner.

OF SCHEER OF STREETS IN THE STORY OF THE STO 13 85 77 EA 8 52

SCIENTIFIC DRILLING INTERNATIONAL MIDLAND, TEXAS

BROWNING OIL COMPANY

Well Name Location

: BROWNING OIL/KNOWLES SECTION 1 #1 : LEA COUNTY, NEW MEXICO

Date Surveyed Job Number

Survey Performed By : RAGSDALE/LOVELACE

: 10 FEBRUARY 1996 4 7 7 7 7 5 - 35:1 77

: 32D0196033

KHL 309 V/2 9 1939/E

This survey is correct to the best of my knowledge and is supported by actual field data.

SCIENTIFIC DRILLING INTERNATIONAL

Company : BROWNING OIL COMPANY Page 1 of 3 Date 10 FEBRUARY 1996

Well Name : BROWNING OIL/KNOWLES SECTION 1 #1
Location : LEA COUNTY, NEW MEXICO Filename : KNOWLES1

No Interpolation

O	Interpola	tion						
	MD ft 0.0 100.0 200.0 300.0 400.0	INC deg 0.00 0.50 0.50 0.50	DIR deg N 0.00°E N84.00°W N78.00°W N78.00°W N 3.00°E	TVD ft 0.00 100.00 199.99 299.99	+N/-S ft 0.00 0.05 0.18 0.36 0.89	+E/-W ft 0.00 -0.43 -1.29 -2.15 -2.55	VS ft 0.00 -0.35 -1.02 -1.65 -1.73	D'LEG °/100 0.0 0.5 0.1 0.0 0.6
	500.0 600.0 700.0 800.0 900.0	0.50 0.50 0.50 0.50 0.25	S 8.00°E N30.00°W S78.00°E N85.00°W S20.00°E	499.99 599.99 699.98 799.98 899.98	0.89 0.84 1.13 1.07 0.91	-2.47 -2.63 -2.42 -2.43 -2.79	-1.66 -1.82 -1.49 -1.53 -1.92	1.0 1.0 0.9 1.0 0.6
	1000.0 1100.0 1200.0 1300.0 1400.0	0.25 0.75 0.75 0.50 1.00	S20.00°E S34.00°W S30.00°W S34.00°W S10.00°W	999.98 1099.98 1199.97 1299.96 1399.95	0.50 -0.25 -1.36 -2.29 -3.51	-2.64 -2.93 -3.62 -4.19 -4.59	-2.00 -2.64 -3.80 -4.77 -5.74	0.0 0.6 0.1 0.3 0.6
	1500.0 1600.0 1700.0 1800.0 1900.0	0.75 0.50 0.25 0.25 0.25	S10.00°W S26.00°E S18.00°W N25.00°E S 5.00°E	1499.94 1599.94 1699.93 1799.93 1899.93	-5.01 -6.05 -6.65 -6.66 -6.68	-4.85 -4.78 -4.65 -4.63 -4.52	-6.74 -7.21 -7.41 -7.40 -7.31	0.3 0.5 0.4 0.5
	2000.0 2100.0 2200.0 2300.0 2400.0	0.25 0.50 0.50 0.50 1.00	S 8.00°E S35.00°E S84.00°E N41.00°E N65.00°E	1999.93 2099.93 2199.93 2299.92 2399.92	-7.11 -7.69 -8.09 -7.81	-4.47 -4.19 -3.50 -2.78 -1.70	-7.49 -7.55 -7.17 -6.40 -5.12	0.0 0.3 0.4 0.5 0.6
	2500.0 2600.0 2700.0 2800.0 2900.0	1.00 1.00 1.00 1.00	N80.00°E N57.00°E N85.00°E S62.00°E N50.00°E	2499.90 2599.89 2699.87 2799.86 2899.84	-6.59 -5.96 -5.41 -5.74 -5.59	-0.05 1.54 3.14 4.78 6.22	-3.44 -1.75 0.00 1.14 2.45	0.3 0.4 0.5 0.6
	3000.0 3100.0 3200.0 3300.0 3400.0	0.75 1.00 1.00 1.50 1.00	S58.00°E N75.00°E S68.00°E N78.00°E N50.00°E	2999.83 3099.82 3199.81 3299.79 3399.76	-5.38 -5.50 -5.60 -5.65 -4.82	7.44 8.84 10.49 12.58 14.53	3.61 4.74 6.11 7.87 9.97	1.0 0.7 0.6 0.9
	3500.0 3600.0 3700.0 3800.0 3900.0	1.00 1.00 1.00 0.50 0.75	N75.00°E N50.00°E N20.00°E N50.00°E N80.00°E	3499.75 3599.74 3699.72 3799.71 3899.71	-4.03 -3.25 -1.87 -0.77 -0.37	16.04 17.55 18.52 19.15 20.13	11.67 13.37 14.91 16.02 17.06	0.4 0.4 0.5 0.6 0.4

SCIENTIFIC DRILLING INTERNATIONAL

Page 2 of 3 : BROWNING OIL COMPANY Company

Date 10 FEBRUARY 1996 Well Name : BROWNING OIL/KNOWLES SECTION 1 #1
Location : LEA COUNTY, NEW MEXICO Filename : KNOWLES1

No Interpolation

MD	INC	DIR	TVD	+N/-S	+E/-W	vs	D'LEG
ft	deg	dea	ft	ft	ft	ft	°/100
4000.0	1.00	N84.00°E	3999.69	-0.17	21.64	18.47	0.3
4100.0	1.00	S25.00°E	4099.68	-0.87	22.88	19.16	1.2
4200.0	1.00	S60.00°E	4199.67	-2.09	24.00	19.50	0.6
4300.0	1.00	S86.00°E	4299.65	-2.59	25.63	20.63	0.4
	1.00	S80.00°E	4399.64	-2.80	27.36	22.01	0.1
4400.0	1.00	280.00 E	4399.04	-2.80	27.36	22.01	0.1
4500.0	1.00	S80.00°E	4499.62	-3.11	29.08	23.33	0.0
4600.0	1.00	S80.00°E	4599.61	-3.41	30.80	24.64	0.0
4700.0	1.00	S82.00°E	4699.59	-3.68	32.52	25.98	0.0
4800.0	1.00	S41.00°E	4799.58	-4.46	33.96	26.81	0.7
4900.0	0.50	S72.00°W	4899.57	-5.26	34.12	26.54	1.3
5000.0	0.25	S 6.00°W	4999.57	-5.61	33.68	25.98	0.5
	0.25	S27.00°W	5099.57	-6.02	33.56	25.66	0.1
5100.0						25.52	0.9
5200.0	1.00	S34.00°E	5199.56	-6.94	33.94		
5300.0	0.50	S50.00°W	5299.56	-7.94	34.10	25.14	1.1
5400.0	0.50	N68.00°W	5399.56	-8.06	33.36	24.44	0.5
5500.0	0.50	S22.00°W	5499.55	-8.30	32.79	23.83	0.7
5600.0	0.50	S78.00°E	5599.55	-8.79	33.05	23.80	0.8
5700.0	0.50	N 5.00°W	5699.55	-8.45	33.44	24.31	0.8
5800.0	0.25	S40.00°W	5799.55	-8.18	33.27	24.30	0.7
5900.0	0.75	S 3.00°E	5899.54	-9.00	33.16	23.79	0.6
6000 0	0.50	N32.00°E	5999.54	- 9.29	33.42	23.87	1.2
6000.0					33.95	24.68	0.1
6100.0	0.50	N43.00°E	6099.54	-8.60			0.7
6200.0	0.25	S65.00°W	6199.54	-8.37	34.05	24.88	
6300.0	1.00	N78.00°W	6299.53	-8.28	33.00	24.02	0.8
6400.0	0.25	N54.00°W	6399.52	-7.97	31.97	23.30	0.8
6500.0	0.25	N30.00°W	6499.52	- 7.66	31.69	23.22	0.1
6600.0	0.25	S79.00°E	6599.52	- 7.51	31.79	23.38	0.5
6700.0	1.00	S80.00°E	6699.52	- 7.70	32.87	24.20	0.8
6800.0	0.50	S72.00°E	6799.51	-7.99	34.14	25.15	0.5
6900.0	0.50		6899.50	- 7.85	34.89		0.5
7000 0	0.50	N74.00°E	6000 F0	2 45	25 65	26.72	0.2
7000.0	0.50		6999.50	-7.45			
7100.0	0.50	S52.00°E	7099.50				0.5
7200.0	0.50	M38.00°W	7199.49	- 7.53			1.0
7300.0	0.50	N86.00°E	7299.49	-7.15			0.9
7790.0	0.50	S66.00°E	7789.47	-7.87	40.74	30.87	0.0
8162.0	1.00	S61.00°E	8161.44	-10.11	45.06	33.42	0.1
8380.0	1.00	S51.00°E	8379.41	-12.23	48.21	35.02	0.1
8600.0	1.00	S41.00°E	8599.38	-14.88	50.96	36.01	0.1
8879.0	1.50	S 6.00°E	8878.31	-20.35	52.94	34.89	0.3
9214.0	1.50	S11.00°E	9213.20	-29.02	54.23	31.54	0.0
7214.0	1.00	D11.00 H	7213.20	27.02	J-12J	2.4.0.4	J.J

SCIENTIFIC DRILLING INTERNATIONAL

Company : BROWNING OIL COMPANY Page 3 of 3

Well Name : BROWNING OIL/KNOWLES SECTION 1 #1 Date 10 FEBRUARY 1996
Location : LEA COUNTY, NEW MEXICO Filename : KNOWLES1

:

No Interpolation

MD	INC	DIR	TVD	+N/-S	+E/-W	VS	D'LEG
ft	deq	deq	ft	ft	ft	ft	/100
9435.0	4.25	S49.00°W	9433.93	-37.23	48.60	22.48	1.7
9550.0	4.25	S59.00°W	9548.62	-42.22	41.73	14.03	0.6
9600.0	5.50	S60.00°W	9598.44	-44.37	38.07	9.78	2.5
9660.0	6.00	S64.00°W	9658.14	-47.19	32.76	3.78	1.1
9748.0	6.25	S61.00°W	9745.63	-51.53	24.44	- 5.59	0.5
9748.0	0.25	301.00 W	9/45.63	-51.55	24.44	-9.59	0.5
9808.0	5.75	S64.00°W	9805.30	-54.43	18.88	-11.85	1.0
9895.0	5.25	S67.00°W	9891.90	-57.89	11.30	-20.13	0.7
10094.0	4.50	S68.00°W	10090.18	-64.37	-4.32	-36.86	0.4
10248.0	4.25	S62.00°W	10243.73	-69.32	-14.96	-48.52	0.3
10432.0	3.75	S55.00°W	10427.29	- 75.97	-25.91	-61.33	0.4
10675.0	3.50	S63.00°W	10669.80	-83.89	-39.03	-76.66	0.2
10858.0	3.25	S72.00°W	10852.49	-88.03	-48.94	-87.29	0.2
11043.0	3.25	S66.00°W	11037.19	- 91.79	-58.72	-97.60	0.3
11135.0	3.25	S67.00°W	11129.04	- 93.87	-63.50	-102.77	0.1
11250.0	3.00	S67.00°W	11129.04	-96.32	-69.27	-108.98	0.2
11250.0	3.00	307.00 W	11243.67	-90.32	-69.27	-100.90	0.2
11363.0	3.00	S67.00°W	11356.71	- 98.63	-74.71	-114.84	0.0
11606.0	3.00	S89.00°W	11599.39	-101.22	-86.93	-126.64	0.5
11791.0	3.00	N89.00°W	11784.14	-101.22	-96.61	-134.94	0.1
11977.0	2.75	N44.00°W	11969.92	- 97.93	-104.57	-140.07	1.2
12182.0	2.50	N35.00°W	12174.71	- 90.73	-110.55	-141.49	0.2
12319.0	3.00	N32.00°W	12311.55	-85.24	-114.17	-141.76	0.4
12319.0	3.00	N43.00°W	12374.46	-82.63	-116.17	-142.13	0.9
12441.0	4.40	N39.60°W	12433.34	- 79.76	-118.66	-142.79	2.4
12441.0	4.50	N29.00°W	12464.25	- 77.78	-120.01	-142.93	2.7
12504.0	5.00	N21.00°W	12496.14	-77.78 -75.38	-120.01 -121.12	-142.64	2.6
12504.0	5.00	N21.00 W	12490.14	-/5.38	-121.12	-142.04	2.0
12534.0	5.50	N 8.00°W	12526.01	-72.74	-121.79	-141.85	4.3
12566.0	5.80	N 5.00°E	12557.86	- 69.61	-121.86	-140.30	4.1
12618.0	2.80	N13.00°E	12609.71	-65.75	-121.34	-137.88	5.9
12678.0	1.80	N73.60°E	12669.67	-64.06	-120.11	- 135.95	4.1
12738.0	5.20	S85.00°E	12729.55	-64.03	-116.50	-132.83	6.0
12773.0	6.30	S82.00°E	12764.37	-64.43	-113.01	-130.06	3.3
		-	==:			-	

Origin of Bottom Hole Closure WELLSITE CENTRE Bottom Hole Closure 130 ft S60.31°W

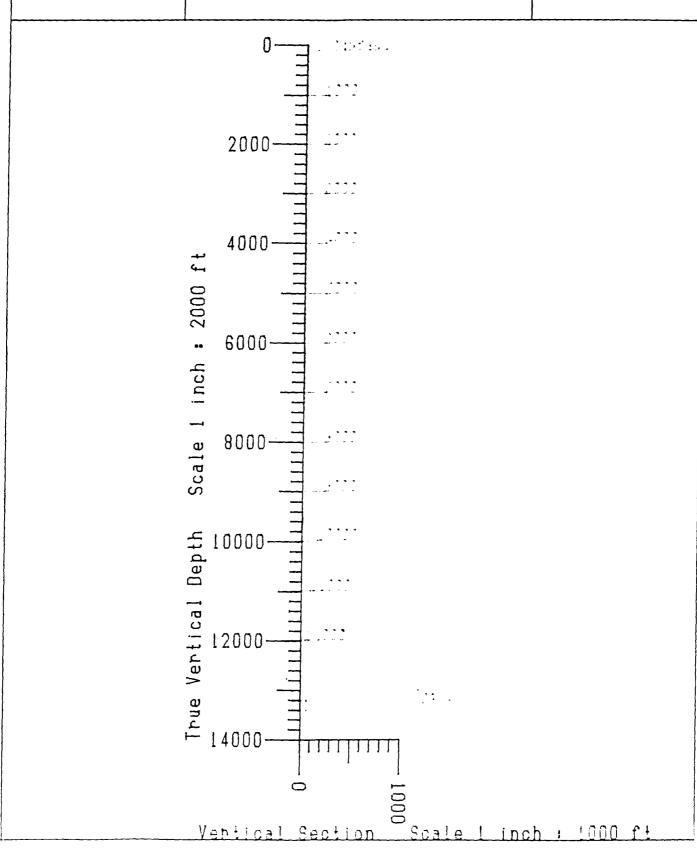
KSRG 0'-9808' BY RAGSDALE SS 9895-'12773' BY LOVELACE



SCIENTIFIC DRILLING INTERNATIONAL FOR BROWNING OIL KNOWLES \$1

LEA COUNTY, NET MEXICO

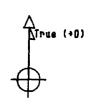


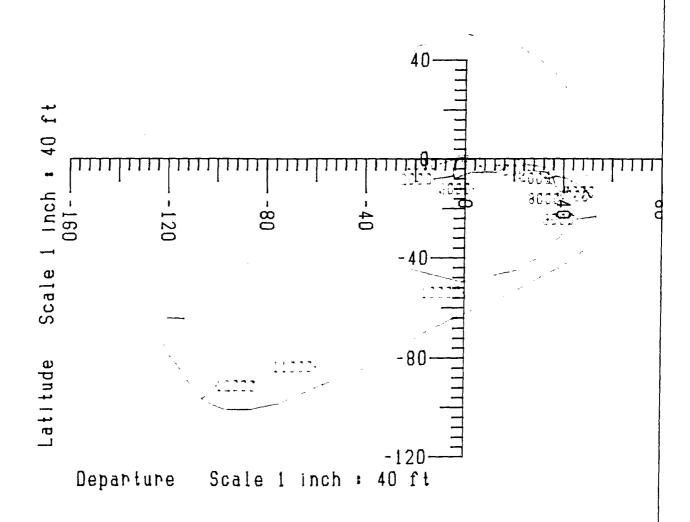




SCIENTIFIC DRILLING INTERNATIONAL FOR ARDYNING DIL KNOWLES \$1

LEA COUNTY. NEW MEXICO





to Appropriate District Office	l The second of the second	energy, Minerals and Na	tural Resources Departmen	nt	Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs,	NM 88240		ATION DIVISION lox 2088 lexico 87504-2088	A STIT VILLIAO:	25 33177
P.O. Drawer DD, Artesi		iii Dana we, New Ivi	10X100 87304-2088	5. Indicate Typ	V 1
DISTRICT III 1000 Rio Brazos Rd., A	ziec, NM 87410			6. State Oil & V-	
	LINDRY MOTICE	S AND REPORTS OF	N WELLS		
(DO NOT USE THIS	FORM FOR PROP		EEPEN OR PLUG BACK TO	A 7. Lease Name	or Unit Agreement Name
1. Type of Well: OIL WELL X	GAS WELL	OTHER		Kı	nowles
2. Name of Operator	Oil Company,	Tnc		8. Well No.	
3. Address of Operator	off Company,	IIC.		9. Pool name or	Wildcat
	686, Gidding	rs, Texas 78942			lcat
4. Well Location Unit Letter	J_:_3627	Feet From TheNorth	Line and	425 Feet Fro	East Line
Section 1		Township 16	Range 38 East	NMPM	Lea
		10. Elevation (Show v	whether DF, RKB, RT, GR, etc.)	NMPM	County
		3717'			
11.			cate Nature of Notice,	•	
NOT	ICE OF INTE	NTION TO:	SL	IBSEQUENT I	REPORT OF:
PERFORM REMEDIAL	WORK	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CASING
EMPORARILY ABAND	ON 🗌	CHANGE PLANS	COMMENCE DRILLI	NG OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASIN	ıg 🗍		CASING TEST AND		
	_				_
OTHER:			OTHER:		
work) SEE RULE 110 1/27/95 - Drill 2# J-55 STC case elloflake (13.2) 10 sks to surfa	n3. L ll" hole to sing. Set @ 2 ppg, 1.86 y ace. Plug do	5,020'. Run 24 5013'. RU Dowel rield) and 200 sk wn @ 10:20 p.m.,	1. Cement w/1820 s C + 1% CaCl2 (14 11/27/95. WOC 25	K-55 STC casi sks C + 4% ge .8 ppg, 1.32	ing & 90 jts 8 5/8" el + 3% salt + 1/4#/skyield). Circulate rill cement & float
ollar - Test ca	asing to 1500	psi. OK. Drill	cement & shoe.		
	•				
hereby certify that the inform	nation above u true and o	complete to the best of my knowled	ige and belief.		
SIGNATURE W	un late	<u> </u>	Prod. M	anager	DATE
TYPE OR PRINT NAME	Doug Jatzlau				(409) 542-3144 TELEPHONE NO.
This space for State (Me)	0.	7	DISTRICT 1.S	HOTEVISOR	DEC 6 × 1850
	restest	5		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
APPROVED BY	9/		- TITLE		DATE

- **1**€ 5

to Appropriate Energy: Minerals and Natural Resources Department District Office	Form C-103 Revised 1-1-89			
P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION P.O. Box 2088	WELL API NO.			
DISTRICT II P.O. Drawer DD, Ariesia WM 88210 Santa Fe, New Mexico 87504-2088	30 025 33177 5. Indicate Type of Lease			
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410	STATE X FEE 6. State Oil & Gas Lease No. V-1222			
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" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name			
I. Type of Well: OIL GAS WELL X WELL OTHER	Knowles			
Name of Operator Browning Oil Company, Inc.	8. Well No.			
Address of Operator P. O. Box 686, Giddings, Texas 78942	9. Pool name or Wildcat Wildcat			
Unit Letter	Feet From The East			
1 16 39 Fact	NMPM Lea County			
10. Elevation (Show whether DF, RKB, RT, GR, etc.)				
Check Appropriate Box to Indicate Nature of Notice, Re	uport or Other Data			
	SEQUENT REPORT OF:			
RFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING			
MPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING	OPNS. PLUG AND ABANDONMENT			
	CASING TEST AND CEMENT JOB			
THER:OTHER:				
2. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, includi-				
rton Drilling Rig #15 spud well @ 7:30 a.m., 11/18/95. Drill into 13 3/8" 54.4# J-55 ST&C casing. Set @ 400'. RU Dowell and 2% CaCl2 + 1/4#/sk Celloflake (14.8 ppg, 1.32 yield). Circulating down @ 7:15 p.m. w/950 psi. WOC 17 1/4 hrs - Test casing to	d cement w/418 sacks Class C			
hereoy certify that the information above is true and complete to the best of my knowledge and belief. Prod. Management of the print name Doug Jatzlau This space for State User	ger			
PROVED BY SETTING TO STRICT IS	UPERVISOR NOV 2 8 1995			

District I PO Box 1980, Hobbs, NM 88241-1980 District III

PO Drawer DD. Artesia. NM 88211-0719

October 9, 1995

State of New Mexico CONSERVICED
Minerals & Natural Resources Deficiency Energy, Minerais & Natural Resources Department RESS (ED

OIL CONSERVATION DIVISION 15

Form C-101 Revised February 10, 1994 Instructions on back

Submit to Appropriate District Office

PO Box 2088 Santa Fe, NM 87504-2088 State Lease - 6 Copies 1000 Rio Brazos Rd., Aztec, NM 87410 Fee Lease - 5 Copies District IV AMENDED REPORT PO Box 2088, Santa Pe, NM 87504-2088 APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address. 1 OGRID Number 142316 Browning Oil Company, Inc. 3 API Number 3080 North Central Expressway, Suite 780, LB 41 30-025-3317 Dallas, Texas 75206 Property Code Well No. ⁵ Property Name Knowles 1 Surface Location Lot Ida Feet from the UL or lot so. Range Feet from the East West time County 38 3,627 North 1,425 East Lea South East ^b Proposed Bottom Hole Location If Different From Surface Township Lot Ida Feet from the North/South line Section UL or lot so. East/West line County Proposed Pool 1 ** Proposed Pool 2 Devonian " Well Type Code 13 Cable/Retary Work Type Code 14 Lexis Type Code 15 Ground Level Elevation N 0 3,717' R 3 " Multiple 17 Proposed Depth " Formation " Contractor " Sped Date No 13,250' Devonian 11/15/95 ²¹ Proposed Casing and Cement Program Hole Size Casing Size Casing weight/foot Setting Depth Sacks of Com **Estimated TOC** 17 1/2" 13 3/8" 61 # 400' Circulate Surface 11" 8 5/8" 5,000' 24 # Back to 400' 400' 7 7/8" 5 1/2" 17 # 13,250' 600' above 12,650' prod. zone Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive some and prop 2010. Describe the blowout prevention program, if any. Use additional shoets if necessary. The Browning Oil Company Knowles #1 well is a proposed 13,200 FT exploratory project for the purpose of testing the Devonian (Silurian) formation. The project is supported by well control consisting of four dry and abandoned wells and seismic. The proposed location will attempt to test a geologic feature at its structurally highest position. Permit Expires 6 Months From Approval Approval for drilling only -- CANNOT produce until Non-Standard Location is Date Unless Drilling Underway. approved. NSL ²⁸ I hereby certify that the information given above is true and complete to the best OIL CONSERVATION DIVISION of my knowledge and belief. Approved by: Michael R. McWilliams PERVISOR Title: President

Conditions of Approval:

Attached []

(214) 739-3481

P. O. Box 1980 Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals, and Natural Resources Department roim 6-102 Revised 02-10-94

instructions on back

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

DISTRICT II P. O. Drawer DD Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410

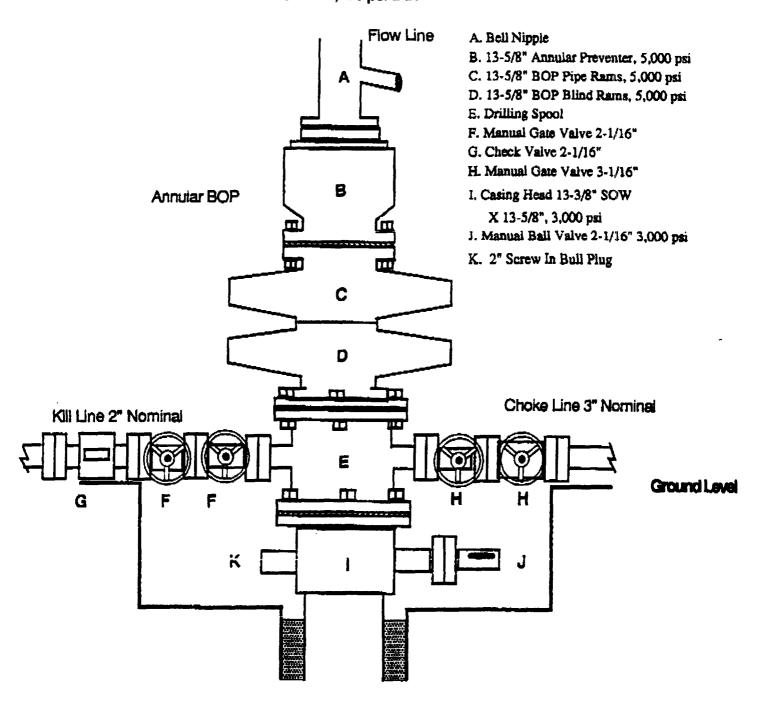
OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 87504-2088

AMENDED REPORT

DISTRICT IV P. O. Box 2088
Santa Fe, NM 87507-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-	² Pool Code	3 Poo	Wildca	at Doi	onian				
Property Code	5 Property Name	KNOWLES PROSPECT					Vell Number		
OGRID No. Operator Name 142316 BROWNING DIL COMPANY				* Elevation 3717'					
"SURFACE LOCATION									
UL or lot no. Section 1	Township Ray 16 SOUTH 38 EAST,		Feet from the 3627'	North/South line	Feet from the 1425'	East/West line EAST	County LEA		
	"BOTTOM HOLE	LOCATION IF	DIFFEREN	T FROM ST	URFACE				
UL or lot no. Section	Township Rar	age Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County		
12 Dedicated Acres 13 Joi	nt or Infill 14 Consolida	tion Code 15 Order 1	io.		<u> </u>	<u>[</u>			
NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION									
16		~					T TALL		
	4 3 5 6	362	10	8	ritte President Cate (214) 739 SURVEYOF I hereby collocation shoplotted from surveys many supervisame is true best of Survey Date of Survey	-3481 R CERTIFICA ertify that the wan on this plant in the series of the deby me or sion, and the and correct belief.	TION e well at was actual under at the to the		
1	3 14		15	16	Signature and Professions S	LYNN * EZNER D. 7920 PRAND R. D. 244 PS NE	#7920 JSJ		

13-5/8" 5,000 psi BOP



MHS COMPLET)n repor					
COMPLETIONS PI# 30-T-0029 12/06/	96 SEC 1 30-025-3	TWP 16S 3177-0000	RGE 38E PAGE 1			
NMEX LEA *	2627FNL 142	5FEL SEC				
BROWNING OIL			WF WFD			
1 KNOW LEASE	LES					
3732KR 3717CR	UNNAMED FIELD/POOL/AREA					
0.01.222		API 30-025	-33177-0000			
11/18/1995 10/20/1	996 ROTARY	VERT	OIL			
13250 DEVONIAN NORTO	N DRLG	15 RI	G SUB 14			
PROJ. DEPTH PROJ. FORM DTD 13053		FM/T	D SILURIAN			
DRILLERS T.D. LOG T.D. LOCATION DESCRIPTION						
8 MI N KNOWLES, NM 3.50 MI NE/13072 (DVNN) OIL PROD IN UNNAMED FLD						
WELL IDENTIFICATION/CHANGES						
FIELD CHGD FROM WILD	CAT					
CASING/LINER DATA						
CSG 13 3/8 @ 400 W/ CSG 8 5/8 @ 5013 W/ CSG 5 1/2 @12018 W/ LNR 4 1/2 11749	418 SACKS 2020 SACKS 2174 SACKS 9-12983		w/ 150s			
	TUBING DATA					
TBG 2 7/8 AT 10023						
	INITIAL POTE	ENTIAL				
IPP 138BOPD SILURIAN COMB PERF 12955-12973	8BW	12955-1305	24HRS			
GTY 46.3 FIELD /RES	500GALS 20% HCL SERVOIR VONIAN	GOR TSTM	-			

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COMPLETIONS
                                          SEC
                                                      1 TWP
                                                                    16S RGE
                                                                                     38E
PI# 30-T-0029 12/06/96
                                          30-025-33177-0000
BROWNING OIL
                                                                                  WF
                                                                                         WFD
                            KNOWLES
TYPE FORMATION LTH TOP DEPTH/SUB BSE DEPTH/SUB
                                             1597
522
-1291
-2693
-3878
                                   2135
3210
5023
6425
LOG
          RUSTLER
           YATES
LOG
          SN ANDRS
GLORIETA
LOG
LOG
                                   7610
7740
LOG
          TUBB
          DRINKARD
                                             -4008
LOG
LOG
          ABO
                                   8265
          WOLFCAMP
                                             -5838
LOG
                                   9570
                                             -7462
-7666
-7954
LOG
          STRAWN
                                  11194
                                  11398
LOG
          ATOKA
                                 11686
12955
LOG
          MSSP
LOG SILURIAN 12955 - SUBSEA MEASUREMENTS FROM KB
                                             -9223
                        LOGS AND SURVEYS /INTERVAL, TYPE/
LOGS
                            DI
                                                          GR
                                                                                       SP
LOGS
                            SONL
              DRILLING PROGRESS DETAILS
                     BROWNING OIL
                    BROWNING OIL
BOX 686
GIDDINGS, TX
409-542-3144
LOC/1995/
DRLG AHEAD
DRLG 5020
DRLG 7480
DRLG 9691
DRLG AHEAD
DRLG 11610
DRLG 12484
DRLG 12994
DRLG AHEAD
                                     TX 78942
11/15
11/22
11/28
12/05
12/12
12/20
01/03
01/09
01/17
01/25
         DRLG AHEAD
13053 TD, WOCT
RIG REL 02/24/96
13053 TD
12/03
                    COMP 10/20/96, IPP 138 BO, 8 BWPD,
GTY 46.3, GOR TSTM
PROD ZONE - DEVONIAN 12955-13053 (GROSS)
TITE HOLE
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CONTINUED

COMPLETIONS SEC 1 TWP 16S RGE 38E PI# 30-T-0029 12/06/96 30-025-33177-0000 PAGE 3

BROWNING OIL

WF WFD

KNOWLES
DRILLING PROGRESS DETAILS

12/03 (DEVONIAN DISCOVERY - NEW FIELD)