MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (505) 748-1471

December 8, 1998

Mr. Michael E. Stogner
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

DEC | 4 1998

S. P. YATES CHAIRMAN OF THE BOARD

JOHN A. YATES

PRESIDENT

PEYTON VATES

EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY

DENNIS G. KINSEY TREASURER

RE:

Runnels ASP Well No. 2

Township 16 South, Range 35 East Section 11: 1650' FSL & 2270' FEL

Lea County, New Mexico

Dear Mr. Stogner:

Yates Petroleum Corporation respectfully requests an administrative order for an unorthodox location for its Runnels ASP No. 2 well.

As per your telephone conversation with Mr. Morris Keith of our office please find enclosed our approved APD for the drilling of this well.

Yates is the Operator of the Atoka well producing in the W/2 of Section 11 and is therefore encroaching only against itself.

The East one-half (E/2) of Section 11 is owned by multiple fee owners.

Please call me @ (505) 748-4351 if you need any additional information

Thank you.

Very truly yours,

YATES PETROLEUM CORPORATION

Ropert Bullock Landman

RB:bn enclosure(s)

District I.
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410

July 1, 1998

State of New Mexico Energy, Minerals & Milural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-101
Revised October 18, 1994
Instructions on back
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Fee Lease - 5 Copies

OOO KIO BIRZOS KO	a., Azicc, N	M 8/410		Sar	ita Fe, NM	8/202				ree I	Lease - 5 Copies	
Sistrict IV 040 South Pachece	o, Santa Fc,	NM 87505 .								AMENI	DED REPORT	
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				105 S. 4	th Street				1		PI Number	
			Artes	ia, New l	Mexico 8821	0				30 - 02	5-34443	
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n I hereby ee	rtify that the	information	given above i	is true and con	uplete to the best	(חד. רח	NSERV	ATTO	אום א	ISION	
of my knowle Signature:	of my knowledge and belief.											
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Date:	4 4	000	Pho	oc:		Conditions of A	pprovel :					

505-748-4347

Attached []

Revised February 10, 1994 Instruction on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

- DISTRICI II P.O. Drawer DD, Artesia, NM 88210

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

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-0°	30-025-34443			Cool Code	0 -	TOWNSEND	Pool Name MORROW	1	
Property (F	Property Nam RUNNELS "/	ASP"		Well Number	
OGRID No. Operator Name O25575 YATES PETROLEUM CORPORATION						Elevation 3979			
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	11	16 S	35 E		1650	SOUTH	2270	EAST	LEA
			Bottom	Hole Loc	eation If Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	s Joint o	or Infill Co	nsolidation (Code Or	der No.				
NO ALLO	WARLE Y	VILL BE AS	SIGNED '	ro THIS	COMPLETION I	JNTIL ALL INTER	RESTS HAVE BI	EEN CONSOLID	ATED

LL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE B OR A NON-STANDARD UNIT HAS REEN APPROVED BY THE DIVISION

 ON A NON BIAN	DARD UNIT HAS BEEN APPROVED BY IT	15 211151011
		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
 	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Cliffa R. May
 		Clifton R. May Printed Name Regulatory Agent Title
		July 1, 1998 Date SURVEYOR CERTIFICATION
 	FEE	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.
 	2270'	JUNE 29, 1998 Date Surved HELL Signature & Seal of Vo. Processional Surveyor Co.
 		Certificate He Herschell Jones 3640 Certificate La DISK 9 GENERAL SURVEYING COMPANY

VATES PETRO CORP NSL / $\sqrt{2/28/98}$

12-08-1998 17:01

MARTIN VATES, III 1912 - 1965 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471

S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASURER

Fax Cover Sheet

	To: MR. Michael Stogwer. npany: Oil Conservation Division
Con	apany: Oil CONSERVATION DIVISION
. .	'hone:
	Phone: 827- 1389
F	rom: Robert Bullock
Com	ipany: Yates Petroleum Corporation
P	Phone: (505) 748-1471
	Fax: (505) 748-4572
,	Date: 42-8-98
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cover	page: 4
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	sa .
Comments:	RUNNES ASP No. 2
	FUNNYS FOR NO. 2

S. P. YATES CHAIRMAN OF THE BOARD JOHN A, YATES

PRESIDENT

PEYTON YATES

EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY

> DENNIS G. KINSEY TREASURER

MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1986 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (505) 746-1471

December 8, 1998

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Oll Conservation Division
2040 South Pacheco Street
Santa Fe, New Maxico 87505

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Robert Bullock Landman

RB:bn enclosure(s)

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PO Box 1980, Hobbs, NM 88241-1980
District II
S11 South First, Artesia, NM 88210
District III
1000 Rio Brazzo Rd., Aztec, NM 87410

RESTRUCTION DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-101
Revised October 18, 1994
Instructions on back
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State Lease - 6 Copies

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11"		_	5/8"	_	32#	4750'		130		c	irculate
7. 7	/8"	5	1/2"	15.	5# & 17 <u>#</u>	12,500		65	xs 0	ex 9000'	
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P.O. Ber 1980, Bobbs, NM 68840

12-08-1998 17:03

Soorer, Minerale and Katural Resources Department

YATES PETRO CORP

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DISTRICT III 1000 Bio Brusso Rd., Asteo, NM 67410

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

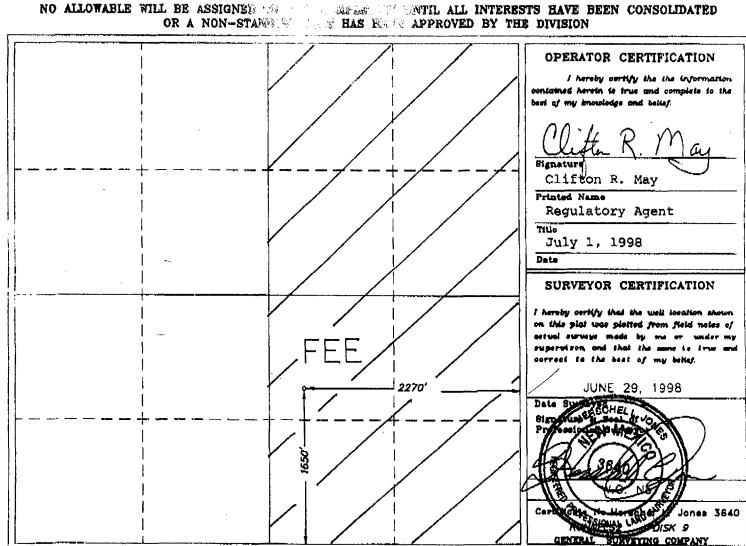
30-025-34443	8 6 400	TOWNSEND	Pool Name MORROW	
Property Code 232.57		arty Name _S "ASP"	Well Number 2	
OZ5575	-	Name OLEUM CORPORATION		Elevation 3979

Surface Location

UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County	ļ
J	11	16 S	35 E		1650	SOUTH	2270	EAST	LEA	1

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot ldn	Post from the	North/South line	Feet from the	East/West Mas	County
Dedicated Acres	Joint o	r infili C	prolidation	Ç Cosr. 📆	da No.				J
320				1					



< TRANSACTION REPORT >

12-08-1998(TUE) 16:57

[TRANSMIT]

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YATES PETROLEUM CORPORATION

105 S. 4th Street Artesia, NM 88210



☎505 748 4585

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A					

FROM:	Morris Keith
PHONE:	505-748-4182
FAX:	505-748-4585
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REMARKS:	☐ Urgent	☐ For Your Review	☐ Reply ASAP	☐ Please Comment
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Runnels ASP #2 Reservoir Phase Behavior

Because of the initial average GOR of 31,700 SCF/STB, an API gravity of 51° and a clear condensate, we are of the opinion the liquids produced from the Atoka in the Runnels ASP #2 are in the gas phase in the reservoir. (See Attachment #1) More specifically, this is a wet gas at reservoir conditions as determined from Table 1 of "Revised Cas Oil Ratio Criteria Key Indicator of Reservoir Fluid Type", William McCain, Petroleum Engineer International, April 1994. (See Attachment #2)

Since this is a wet gas in the reservoir, it will probably remain a gas throughout the productive life of the well. According to McCain, The Properties of Petroleum Fluids, 2nd ed., 1990, no liquid will be formed in the reservoir. (See Attachment #3) If there is no liquid formed in the pore space then there will not be a reduction in the gas relative permeability over the life of the well.

Attachment 1

Runnels ASP #2 API = 51° Condensate Color = Clear

<u>Date</u>	<u>Oil</u>	<u>Gas</u>	<u>Water</u>	Tubing <u>Pressure</u>	Yield (bbl/mmcf)	GOR (mcf/stb)
1-Nov-98	92.	2972	6	1010	31.0	32.3
2-Nov-98	94-	2937	3	1010	32,0	31.2
3-Nov-98	92	2904	6	1010	31.7	31.6
4-Nov-98	95	2984	3	1010	31.8	31.4
5-Nov-98	114	2865	3	1010	39.8	25.1
6-Nov-98	93	3051	3	1010	30,5	32.8
7-Nov-98	97	2782	0	1010	34.9	28.7
8-Nov-98	94	2780	3	1000	33.8	29.6
9-Nov-98	99	2942	3	1010	33,7	29.7
10-Nov-98	94	2885	3	1050	32.6	30.7
11-Nov-98	96	2796	3	1050	34.3	29.1
12-Nov-98	98	2531	6	1010	38.7	25.8
13-Nov-98	95	2843	3	1010	33,4	29.9
14-Nov-98	9'7	269 7	6	1010	36.0	27.8
15-Nov-98	93	2874	3	1010	32.4	30.9
16-Nov-98	89	2799	3	1010	31,8	31.4
17-Nov-98	78	27 7 6	3	1010	28.1	35.6
18-Nov-98	4.5	1445	0	1250	31.I	32.1
19-Nov-98	9.2	2716	3	1150	33.9	29.5
20-Nov-98	75	2835	3	1050	26.5	37.8
21-Nov-98	86	2985	3	1025	28.8	34.7
22-Nov-98	91	2767	3	1010	32.9	30,4
23-Nov-98	86	2939	3	1010	29.3	34.2
24-Nov-98	97	29 72	3	1000	32,6	30.6
25-Nov-98	55	2196	3	1150	25.0	39,9
26-Nov-98	77	25 27	3	1100	30.5	32.8
27-Nov-98	83	2878	3	1050	28.8	34.7
28-Nov-98	81	2684	3	1050	30.2	33.1
29-Nov-98	98	2861	3	1025	34,3	29.2
30-Nov-98	72	2756	6	1010	26.1	38,3
Average					31.9	31.7

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YATES PET ENG

MUTICE:

This metadel may be protected by copyright law.

Revised Gas-Oil Ratio Criteria Key Indicators Of Reservoir Fluid Type

Part 5: The previous four articles in this series revealed the differences and similarities among the five reservoir fluids in detail.¹⁻⁴ This concluding article discusses guidelines for using field data to determine the fluid type, the laboratory evidence that verifies fluid type and the production behavior of the five fluids.

able I gives the guidelines for determining fluid type from field data. Three properties are readily available: the initial producing gas-oil ratio (GOR), the gravity of the stock-tank liquid and the color of the stock-tank liquid. Initial producing GOR is by far the most important of the indicators and should be considered first, with the other two indicators used to confirm fluid type. Stock-tank liquid gravity and color are both indicators of the quantity of heavy components present in the initial reservoir fluid. Darker colors are associated with the largest, heaviest molecules in the petroleum mixture.

If any one of these three properties fails to meet the criteria of Table

I, the test fails and a representative sample of the reservoir fluid must be examined in a laboratory to establish fluid type.

The initial producing GOR guidelines given in Table 1 are somewhat different than rules presented by other authors. The rationales for selection of the values in Table 1 are given in the previous articles in this

series.24 These articles are the first to present empirical evidence to support the selection of GOR criteria for identifying fluid type.

Table 2 shows the expected laboratory analysis results of the five fluids. The oils will exhibit bubble points, the retrograde gases will display dew points, and the other gases will demonstrate no phase change throughout the pressure range expected in the reservoir. The heptanes plus composition cutoff between black oils and volatile oils (20 mole %) is not exact. Values from 19 to 22 mole % might be observed.2 However, the cutoff of 12.5 mole % between volatile oils and retrograde gases is fairly sharp.3 The compositions of 4 mole % and 0.7 mole at for this constant for oils as long as reser-

the other gases are based on engineering applications. Some: retfograde liquid will likely occur in the reservoir in either case:430

Oil formation volume factor has been defined for use in oil material balance calculations. Since these calculation procedures are not applicable to volatile oils, formation volume factor usually is not measured for volatile oils. But one laboratory result that indicates the presence of a volatile oil is an oil formation volume factor at bubble-point pressure of 2.0 res bbl/STB or greater.

Production Characteristics

Production trends for the five fluids are shown in Table 3. Producing GOR.

	Black oil	Volatile oil	Retrograde oil	Wet gas	Dry gas
Initial producing gas-liquid ratio, scf/STE	<1,750 3	1,750 to 3,200	>3,200 ·	>15,000*	100, 000
Initial stock-tank liquid gravity, "API	<45	>40	**************************************	Up:to-70	No liquid
Color of stock-tank Equid	Dark	Colored	Lightly colored	~Watenwhite	No liquid

by William D. McCain Jr., S.A. Holditch and Associates, College Station, Texas

Attachment 3

YATES PET ENG

THE PROPERTIES OF

PETROLEUM EINS

SECOND EDITION

WILLIAM D. McCAIN, Jr.

PennWell Books
PennWell Publishing Company
Tulsa, Oklahoma

Wet Gas Phase Diagram

The entire phase diagram of a hydrocarbon mixture of predominately smaller molecules will lie below reservoir temperature. An example of the phase diagram of a wet gas is given in Figure 5-4.

A wet gas exists solely as a gas in the reservoir throughout the reduction in reservoir pressure. The pressure path, line $\overline{12}$, does not enter the phase envelope. Thus, no liquid is formed in the reservoir. However, separator conditions lie within the phase envelope, causing some liquid to be formed at the surface.

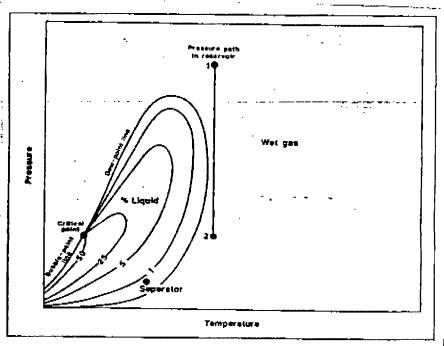


Fig. 5-4. Phase diagram of a typical wet gas with line of isothermal reduction of reservoir pressure, 12, and surface separator conditions.

OKC SALES

CUDD PRESSURE CONTROL OKLAHOMA CITY 405 842 2800 15:48:50 12-07-1998 PRODUCTION ASSOCIATES' PRODUCING WELL PRESSURE GRADIENT CALCULATION

YATES PETROLEUM RUNNELS ASP ST CM #1

BEGGS AND BRILL CORRELATION SOLUTION GAS-OIL RATIO USES LASATER

LIQUID FLOW RATE (STB/D) = 80 GAS FLOW RATE (MSCF/D) = 2776WELLHEAD PRESSURE (PSIG) = WELLHEAD TEMPERATURE (DEG F) = 75 BOTTOM HOLE TEMPERATURE (DEG F) = 185 WATER-LIQUID RATIO (STBW/STB) = CONDENSATE API GRAVITY (DEG) = 58 WATER SPECIFIC GRAVITY = 1.06 FORMATION GAS SPECIFIC GRAVITY (AIR = 1) = .58 % OF H2S CONTENT (MOLE PERCENT) ≈ 0 \$ OF CO2 CONTENT (MOLE PERCENT) = 0

NUMBER OF CASING SECTIONS (MAX = 4) = 1

- 1 CASING SECTION INSIDE DIAMETER (INCH) = 4.892
- 1 CASING SECTION MEASURED DEPTH (FT) = 12620
- 1 CASING SECTION TRUE VERTICAL DEPTH (FT) = 12620

NUMBER OF TUBING SECTIONS (MAX = 5) = 1

- 1 TUBING SECTION INSIDE DIAMETER (INCH) = 2.441
- 1 TUBING SECTION OUTSIDE DIAMETER (INCH) = 2.875
- 1 TUBING SECTION MEASURED DEPTH (FT) = 11600

MEASURED PERFORATION DEPTH (FT) = 11600FLUID FLOW PATH (1 = ANNULAR) 2 = TUBING) = 1 Annular flow, who = 500 psi

OKC SALES

CUDD PRESSURE CONTROL OKLAHOMA CITY 405 842 2800 15:48:50 12-07-1998 PRODUCTION ASSOCIATES' PRODUCING WELL PRESCURE CRADIENT CALCULATION

> YATES PETROLEUM RUNNELS ASP ST CM #1

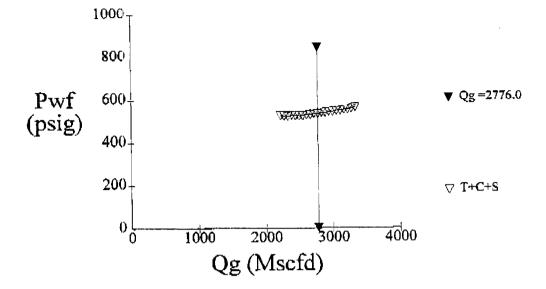


BEGGS AND F GAS FLOW RA FLUID FLOW	ATE (MSCF/	LABATER (D) = 2776 3/D) = 80	.00 .00 FLUI	D PRODUCING	THROUGH	ANNULUS
MEAS-DEPTH (FT)	PRESSURE (PSIG)	TEMPERATURÊ (DEG F)	VELOCITY (FT/SEC)	DENSITY (LBM/FT3)	LIQUID HOLDUP	flow regime
0	500	75	10.01	7,65	0.132	ANNULAR
600	534	81	9.49	7.94	0.137	ANNULAR
1200	568	86	9.01	8.23	0.142	ANNULAR
1800	604	92	8.58	8.53	0.147	ANNULAR
2400	641	98	8.18	8.82	0.153	ANNULAR
3000	679	103		9.10	0.158	ANNULAR
3600	718	109	7,81			an n ular
4200	759	115	7.46	9.38	0.163	
4800	800	121	7.15	9.67	0.168	<u>ANNUL</u> AR
		126	6.85	9.91	0.172	ANNULAR
5400	842		6.58	10.17	0.1 7 7	ANNULAR
6000	886	132	6.33	10.43	0.182	ANNULAR
6560	927	137	6.11	10.68	0.187	ANNULAR
7120	970	143	5.91	10.92	0.191	ANNULAR
7680	1013	148	5. 7 1	11.17	0.196	ANNULAR
8240	1058	153	5.53	11.41	0.201	ANNULAR
8800	1103	158	5.36	11.65	0.205	ANNULAR
9360	1149	164	E 19	11.89	0.210	ANNULAR
9920	1196	169		12.13	0.215	ANNULAR
10480	1244	174	5.04		0.220	ANNULAR
11040	1293	180	4.90	12.37		<u>ANNULAR</u>
11600	1343	185	4.76	12.61	0.225	MAMOTIVA

(MON) 12. 7 98 16:04/ST. 16:01/NO. 4860111138 F 9

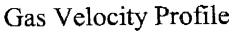
FROM

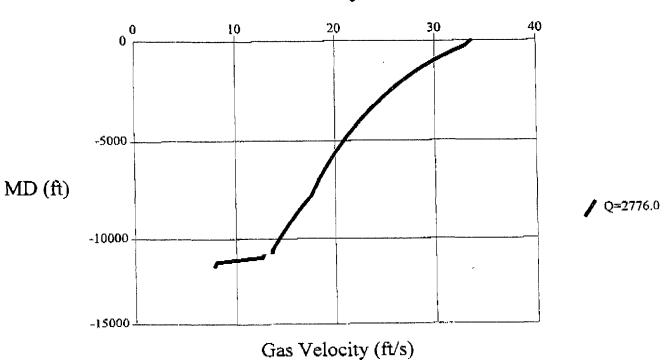
Pressures at Bottom Hole Node



(MON) 12, 7'98 16:04/ST. 16:01/NO. 4860111138 F 10

FROM





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

State of New Me ::: Energy, Minerals and Natural Resources Department

Form C-107 Revised 4-1-91

P.O. Drawer DD, Aneria, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd, Azzec, NM 87410 OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Filing Instructions Bottom of Page

APPLICATION FOR MULTIPLE COMPLETION

) betato	T	Adda	255	
Runr	nels ASP	2 J	11 16S 35£	Lea
esse		Well No. Unit	Lr Sec - Twp - Rge	County
All app	licants for multiple comple	tion must complete Items 1 and	2 below.	
	c following facts	U pper Zone	Intermediate Zone	Lower Zone
2 ,	Name of Pool and Formation	Shoe Bar North Strawn		North Shoe Bar Atoka
ь.	Top and Bottom of Pay Sention (Perforations)	11385-11470		12008-12025
¢.	Type of production (Oil or Gas)	Oil		Gas
ď.	Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
ć.	Daily Production Actual Estimated Oil Bbls. Gas MCF Water Bbls.	(ESTIMATED) 440 BOPD 700 MCFGPD 0 BWPD		(ACTUAL) 2874 MCFGPD 93 BOPD

of packers and side door chokes, and such other information as may be pertinent. b. Plar showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases

offseaing applicant's lease.

Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112

	1
OPERATOR:	OIL CONSERVATION DIVISION
I bernoy servity apowe information is true and complete to best of my impositions, and belief.	
Signanure Mosmo Ketal	Approved by:
-	L
Printed Name & Title Morris Keith, Operations Engine	ੀਮੈਂਸ਼c:
Date November 24, 1998 Telephone 505-748-4182	Date:

NOTE: If the proposed multiple completion will result in an anomhodox well location and/or a non-standard promition unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

FILING INSTRUCTIONS:

District Approval - See rule 112-A-B - Submit 4 copies of Form C-107 with anachments to appropriate district office.

Division Director Administrative Approval - See Rule 112-C - Submit 2 copies of Form C-107 with anadaments to Division office in Santa Fe and 2 copies of Form C-107 with attachments to appropriate district office.

Mujuble completions not qualifying for District or Division Director approval may be set for hearing as outlined in Rule 112-A-E.

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

November 30, 1998

Yates Petroleum Corporation 105 South 4th Street Artesia, New Mexico 88210

Attention:

Morris Keith

Re:

Application of Yates Petroleum Corporation for administrative approval to dually complete its Runnels "ASP" Well No. 2 (API No. 30-025-34443), located 1650 feet from the South line and 2270 feet from the East line (Unit J) of Section 11, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico, in both the Strawn (Oil) formation and the Atoka (Gas) formation.

Dear Mr. Keith:

Reference is made to the subject application dated November 24, 1998. Since the reported liquid production for the Atoka interval is in excess of one barrel per day, please submit the required technical information pursuant to Division Rule 112-A.C(2) [see copy attached).

Furthermore, in my review of this application I found no reference to any previous approval of an unorthodox location for this well. Please submit a copy of any such Division order along with the required technical data.

Thank you for your cooperation in this matter, and should you have any questions concerning this matter, please contact me in Santa Fe at (505) 827-8185.

Sincerely,

Michael E. Stogner

Chief Hearing Officer/Engineer

cc:

Chris Williams, N.M.O.C.D. - Hobbs

William F. Carr, Legal Counsel for Yates Petroleum Corporation - Santa Fe

and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location of packers, side door chokes, and such other information as may be pertinent. [2-1-82...2-1-96]

(3) The district supervisor may forward any application to the Director of the Division for approval. [2-1-82...2-1-96]

112-A.C. Administrative Approval (Division Director)

- (1) The Division Director may authorize the multiple completion (qualifying conventional, tubingless, or combination) not qualifying for District approval or referred to him by the district supervisor. [2-1-82...2-1-96]
- (2) When any gas zone of a proposed multiple completion is to be produced through a casing-tubing annulus and such zone produces more than one barrel per day of liquids, the applicant shall furnish proof that such liquids may be efficiently produced without undue use of reservoir energy for the expected producing life of the well. [2-1-82...2-1-96]
- (3) Application for administrative approval of a multiple completion shall be made in QUADRUPLICATE, with two copies of the application to be mailed to the Division's Santa Fe Office, and two copies to the District office for the area in which the well is located. Application shall be made on the Division Form C-107 (Application for Multiple Completion) and shall be accompanied by the following:
 - (a) Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location of packers, side door chokes, and such other information as may be pertinent.
 - (b) Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as hereinafter provided.)

[2-1-82...2-1-96]

(4) Upon receipt of a complete application the Division Director may approve the matter administratively or he may set any such application for public hearing. [2-1-82...2-1-96]

112-A.D. Qualifying Multiple Completions

- (1) The following defines those mechanical installations qualifying for District or Administrative approval of multiple completion. [2-1-82...2-1-96]
 - (a) The applicant proposes to utilize one of the <u>conventional</u> mechanical installations described below:
 - (i) The well is to be completed as a gas-gas dual or as a gas-gas-gas triple and the hydrocarbons from each of the zones can be safely and efficiently produced through parallel strings of tubing or a combination of tubing string(s) and the tubing-casing annulus; or
 - (ii) The well is to be completed as an oil-oil dual or as an oil-oil-oil triple and the hydrocarbons from each of the zones can be safely and efficiently

District I PO Box 1966, Hobbis, NM 88241-1966

District II FO Drawer DD, Artesia, NM \$1211-9719

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-104 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office 5 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

000 Rio Brazos Sistrict IV				Santa	Fe,	NM 87504	-2088					ENDED REPORT	
O Box 2008, Se	inia Fe, NM RJ	87504-2008 EQUEST	FOR A	LLOWAI	BLI	E AND AU	THORI	ZAT	ом то т				
Vatas	· · · · · · · · · · · · · · · · · · ·		Operator sai	se and Addres	•					, oct	RID No.		
105 So	uth Fou	irth Stre	eet !	ns Well H	BEL	BEÉN PLACED OW. IF YOU E	IN THE F	ONCL	3	0255	for Filling	Code	
Artesi	a, NM	88210	. * .	LOT THIS							NW	ļ	
	Pl Number					⁴ Pool Name	,					Pool Code	
30 - 0 25 - 34443 Shoe Bar Atoka, North 96763 'Property Code 'Property Name 'Well Number								96763 (di Namber					
	257	١,	Runnels	ASP		riopaty iva					•	2	
		Location											
Ul or lot no.	Section	Township	Range	Lot.lda		et from the	North/Sou	ih Line	Feet from the	East/\	West Eas	County	
J	11	16S	35E			1650	South	1	2270	Ea	ast_	Lea	
UL or lot no.	Section 1	Hole Loca	Range	Lot Ida	F	eet from the	North/Sou	th line	Feet from the	East/\	West line	County	
				i			<u> </u>		<u> </u>				
" Lac Code		ng Method Cod	1	Connection De	40	14 C-129 Perm	it Number	,	C-129 Effective	Date	" с.	129 Expiration Date	
P III. Oil ai	nd Gas 1			-12-98	1			<u></u>			<u> </u>		
Тгадарог			ransporter ?			" PO	D	11 O/G			ULSTR L		
OGRID	Amo	co P/L	Int. Tr						Unit J -		Description 11	-T16S-R35E	
138648	502	N. West	t Avenu	e		282208	3	0	•				
		relland,		336				:	Init I -	Sooti	ion 11	-T16S∸R35E	
Agave Energy Co. 105 South Fourth Street							3	G	onit J -	secti	ron 11	-1105-K35E	
	Artesia, NM 88210												
								1			 		
								· · · · · ·					
4	,					ŷ r Y	15s				·		
IV. Prodi	nced Wa	ter	····			4 POD 10	STR Locati		Description	<u></u>		· 	
28221.		Unit	J - S	ection [11-	T16S-R35E	SIK DAM	916 1194J K	Nesculation				
V. Well						1100 1002	-						
	ud Date		14 Ready D	ate		מד "			" PBTD		Perforations		
RH 7-28 RT 7-30	-98 * Hole Size		10-6-	98 Casing & Tub	ne Si	12620		Depth Se	12409'			8-12025 '	
	22			card a tuo	16		·	40		Camar		surface	
	14-3/4			11-3				429				irculate	
	11"			8-				4760	_				
	7-7/8	11		5-1			1	2620			1550 sx - circulate 1825 sx		
	Test Da	ata		2-7	7/8	11	1	1632	·				
Date i		1	livery Date		Cest E		" Test Len			Pressure		³⁴ Cag. Pressure	
10-1: "Choi			12-98 Oil	10-	Wat		24 hou	rs	135	O#		Packer Test Method	
17/64			36		0		2189				F	low Test	
		ules of the Oil C n given above is					OI	L CC)NSERVA	TION	DIVIS	SION	
knowledge and Signature:	belief.	+	1.)		Approv		M	. 111	/ · /	`~a		
Printed name:	Jus	hy 1	fler-			Title:	DIS	ARC	17 1 8 C 12	CARS	OR,		
Title:		y Klein		<u> </u>			al Date:	A 1					
Date: Nove	Opera ember 9	tions To		an 05-748-	147			4.0.7	7 1998	}			
NOVE						the previous oper	alor						
	Paradam	Operator Signs	uluce			Th.d	ed Name			; *	Title	Date	

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-105

S' braik to Appropriate
District Office
State Lease — 6 copies
Fee Lease — 5 copies

Revised 1-1-89

Fee Lease — 5 copies DISTRICT! P.O. Box 1980, Hobbs, I	NIM 88240	. (OIL C		ERVAT			VISI	ON	WE	LL API NO. 3	0-025-	34443	
DISTRICT II P.O. Drawer DD, Artesia		0 ′	San		P.O. Box New Mex			2088		5.	Indicate Typ		TATE [FEE X
DISTRICT III 1000 Rio Brazos Rd., Az	ziec, NM 87	410								6.	State Oil &	Gas Lease	No.	
WELL C	OMPLET	ION OF	R RECO	MPLET	ION REP	ORT	AND	LOG						
la Type of Well: OIL WELL		WELL []			OTIER					7.	Lease Name	or Unit Ag	greement h	Name
b. Type of Completion; NEW WORK WELL X OVER		[PLUIO BACK	DIF	F SVR ☐ om	ang						D	- A GD	
2. Name of Operator		<u>-`</u>				=				- R	Well No.	Runne1	S ASP	
YATES PETROL	EUM COE	RPORAT	'ION		(505	١ 74	8-14	71		"		2		
3. Address of Operator					(303		<u> </u>	<u></u>	~	9.	Pool name o	w Wildcat		
105 South 4th	St., A	Artesi	a, NM	88210)	·					Shoe	Bar At	oka, l	North
Unit Letter	<u>J</u> : –	1650	_ Feet From	The	South		نا	ne and	22	70	Foot Fr	om The _	East	Line
Section	11		Township	1	6S	Range	6	35E		NMP	M	Lea		County
10. Date Spudded RH 7-28-98 RT 7-30-98	11. Date T.D 9-1	6-98	1 12.1		pl. <i>(Ready to</i> -6-98	Prod.)				97'	<i>RKB, RT, GR</i> GR		14. Elev.	Casinghead
15. Total Depth	16. P	lug Back		17	. If Muhiple Many Zone	Compl.	. How	18	. Inter	vals I	Rotary Tools		Cable To	pols
12620'		1240			Many ZDIK				Dim	<u> </u>	40-126	20.	ل	
19. Producing Interval(s), of this completion - Top, Bottom, Name 12008-12025 Atoka 20. Was Directional Survey Made								urvey Made						
21. Type Electric and Other Logs Run CNL/LDC, BHC & Laterolog							_	22. Was Wel	I Cored	No				
23. CASING RECORD (Report all strings set in well)														
CASING SIZE	WEIG	HT LB/		DEPTH			OLE S		<u> </u>		ENTING RI	CORD	AN	OUNT PULLED
16"					40'			2"	Ce	ment	to sur	face		
11-3/4"	42#				29'		4-3/	4"			x - cir			
8-5/8" 5-1/2"	32# 17#			<u>47</u> 126	60'		1 <u>"</u> 7-7/	011			x - cir	culate		
J-1/2	1/1/			120	20		1-11	0	110	<u> </u>	X			
24.			LINER F	RECOR	D					25.	TUI	BING RE	CORD	
SIZE	ТОР		ВОТТО	M :	SACKS CEN	MENT	S	CREEN			SIZE	DEPTI	I SET	PACKER SET
<u> </u>					<u>.</u>		 -			<u>2-</u>	7/8"	11	<u>632'</u>	11641'
26. Perforation reco	nd (interne	al size	and numb				1 27	ACID	, cn	OT E	D ACTT ID E	CEME	NT COI	L UEEZE, ETC.
12008-12025' w				CI)				PTII IN						TERIAL USED
	,						12	008-1	1202	5 '	Frac'd			
											00g met	nanol 4	40# CM	MPG 70
					PRODU	(TTY)					0 scf N	2 & 470	000#_2	20-40
28. Date First Production	1	Pro	oduction Me		wing, gas lif							Well St	atus (Prod	l. or Shut-in)
10-12-98				F	lowing							P:	roduci	ing
Date of Test	Hours Te	sted	Choke		Prod'n For Test Perio		Oil - Bi			s - MCI	: W	ater - Bbl.		Gas - Oil Ratio
10-21-98 Flow Tubing Press.	24 Casing Pr		17/	04 ued 24-	Oil - Bbl.		86 Ga	s - MCF		189	r - BbL	0 Oil Gr	avity - AP	l - (Corr.)
1350#	Packe		Hour F		86			2189	i	******	0	00	N/A	1 - (CD11.)
29. Disposition of Gas (Se Sold			ed, etc.)								Test Wi	inessed By		
30. List Attachments											, ROCI	- <u>, 11</u> 41	<u> </u>	
Drill Stem T	ests, I	<u>Deviat</u>	ion Su	rvey	& Logs									<u>,</u>
31. I hereby certify that	t the inform	ation she	wn on bol	h sides o	of this form	is true	and co	omplete.	so she	best of	my knowle	dge and b	elief	ł
Signature /	ustuc	#Vo	in)		rinted	sty	Klei	n		_ Title	Operat:	ions Te	ech. Da	nte_11-9-98
218tramie -		- 												

INSTRUCTIONS

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

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeaster	rn New Mexico		Northwestern New Mexico			
T. Anhy	T Canyon		T. Ojo Alamo	T. Penn. "B"		
r. Salt	T. Strawn	11323'		T. Penn. "C"		
3. Salt	T. Atoka	11653'	T. Pictured Cliffs	T. Penn. "D"		
3. Salt	T. Miss Lime	12532'	T. Cliff House	T. Leadville		
Γ. 7 Rivers				T. Madison		
Γ. Queen	T. Silurian		T. Point Lookout	T. Elbert		
L. Grayburg	T Montova		T. Mancos	T. McCracken		
Γ. San Andres 4717	T. Simpson		T. Gallup	T. Ignacio Otzte		
r. Glorieta 6276	T. McKee		Base Greenhorn	T. Granite		
T. Paddock	T. Ellenburger		T. Dakota	T		
T. Blinebry	T. Gr. Wash		T. Morrison	Т		
T. Tubb	T. Delaware Sand		T. Todilto	T		
T. Drinkard 8125 T. Abo 8125	T. Bone Springs			T		
T. Abo8125 '	T. Morrow Lime		T. Wingate	T		
T. Wolfcamp 9610	T.Austin Cycle			T		
T. Penn		12402'		т		
T. Cisco (Bough C)	т		T. Penn "A"	T		
	OIL O	R GAS S	ANDS OR ZONES			
No. 1, from	lo		No. 3, from		•••••	
No. 2, from						
			WATER SANDS			
Include data on rate of water in	flow and elevation to whi	ch water ros	se in hole.	•		

				••••••		
1	ITHOLOGY REC	ORD	ttach additional sheet if	necessary)		

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	То	Thickness in Feet	Lithology	From	То	Thickness in Feet		Lithology
0	429	429	Surface					
429	605	176	Redbed & anhydrite			1		
605	1570	965	Redbed]]		
1570	2245	675	Redbed, salt & anhydrite					
2245	3285	1040	Anhydrite & salt	Í I				
3285	4320	1035	Anhydrite & dolomite	ì		1		
4320	4841	521	Anhydrite, dolo & shale			ļ l		
4841	5410	569	Anhydrite & dolomite]		1 1		
5410	8130	2720	Anhy, dolo, shale & sand			1		
8130	9070	940	Dolomite, anhy & shale			1		
9070	9600	530	Dolo, lime, shale & anhy			1		
	10125	525	Lime, shale, dolo & sand	!		1 1		·
	11355	1230	Lime, shale & sand			1 1		
	11426	71	Lime & shale]]		})	
	11704	278	Lime]	-	in the second second
11704		790	Lime, shale & sand	[1		
12494	12620	126	Lime & shale			1 1		es et
				·		ļ l		
1]		
			1					

YATES PETROLEUM CORPORATION Runnels ASP #2 Section 11-T16S-R35E Lea County, New Mexico

RESULTS OF DRILL STEM TESTS:

DST #1 11354-11405': Misrun

DST #2 11354-11405' (Strawn): TIMES: TO 7"; SI 60"; TO 60"; SI 180". RECOVERY: 2137' of oil and 81' of mud. SAMPLER: 12.1 cfg, 1050 cc oil and 100 cc mud. PRESSURES: IHP 5475; IFP 3242-3299; ISIP 4232; FFP 4018-4116; FSIP 4229; FHP 5442

Instruction on back Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

200 Rd., Astoc, NM 87410

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-02	Number 5 - 32	1443		Pool Code 763		Pool Name North Shoe Bar Atoka				
Property 232					Property Nam RUNNELS "		Well Numbe			
0GRID N 0255			Operator Name YATES PETROLEUM CORPORATION						Elevation 3979	
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	11	16 S	35 E	35 E 1650 SOUTH 2270				EAST	LEA	
			Bottom	Hole Lo	cation If Diffe	rent From Sur	face			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre	Joint or	Infill Co	solidation (Code Or	der No.	<u></u>			L	
320	<u> </u>									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

OR A TOTAL STANDARD CHIT HAS BEEN APPROVED BY THE DIVISION							
	· · · · · · · · · · · · · · · · · · ·			OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.			
	 	//_	 - 	Clifton R. May			
	 			Printed Name Regulatory Agent Title July 1, 1998			
:	 			SURVEYOR CERTIFICATION			
	 	FEE		I hereby certify that the well location shown on this plat was plotted from field notes of social surveys made by me or under my supervison and that the same is true and correct to the best of my belief.			
	 		2270'	JUNE 29, 1998 Date Supplied Schell Sign tune Schell Profession and Supplied Schell Control of Cont			
·.		1650		Certificate No Horschell Jones 3640 Certificate No Horschell Jones 3640 CENERAL SURVEYING COMPANY			

Deviation surveys taken on Yates Petroleum Corporation's Runnels ASP #2 well in Lea County, New Mexico: Unit J 11-16-35

	1650/5	+ 1270/E
Depth	Degree	30.025-3444
190	.75	30 000 3744
429	.75	
659	1.00	
1002	.75	
1282	.75	
1527	1.00	
1746	.75	
1901	.75	
2088	.50	
2274	.50	
2523	. 75	
2773	. 50	
3026	1.00	
3088	.75	
3335	. 75	
3580	.75	
3922	.25	
4295	. 75	
4760	1.00	
5226	. 75	
5723	1.25	
6220	1.25	
6717	1.00	
7190	1.25	
7475	1.25	
7971	1.00	
8474	1.00	
8977	.75	
9488	1.00	
9973	1.00	
10,477	1.50	
10,728	1.25	
10,977	1.50	
11,195	1.50	
11,405	1.25	
11.659	1.25	
11,907	1.75	
12,005	1.50	
12,250	3.00	
12,345	2.75	
12,620	2.25	

I hereby certify that I have personal knowledge of the facts placed on this sheet and that such information given above is true and complete.

Norton Drilling Company

Before me, the undersigned authority, on this day personally appeared Sherman H. Norton, Jr., known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is the drilling contractor of the well identified in this instrument and that such well was not intentionally deviated from the vertical whatsoever.

Sherman H. Norton,

SWORN AND SUBSCRIBED TO before me this 24th day of September 1998.

PAT FARRELL

Notary Public, State of Texas Ny Commission Expires 04-09-2000 Notary Public in and

Lubbock County, Texas.

District i PO Box 1984, Hobbs, NM 88241-1986

Previous Operator Signature

State of New Mexico

Revised February 10, 1994 Instructions on back 5 Copies

District II PO Drawer DD, Artesia, NM 88211-9719 OIL CONSERVATION DIVISION Submit to Appropriate District Office District III PO Box 2088 Santa Fe, NM 87504-2088 1000 Rio Brazos Rd., Aztec, NM 87410 MENDED REPORT District IV PO Box 2088, Santa Fe, NM 87504-2088 REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT 1 OGRID Number Operator same and Address Yates Petroleum Corporation 025575 105 South Fourth Street ' Remon for Flling Code Test perfs 12008-12025' (Ato 75 BOPD & 2200 MCFPD down line for October, 1998 Artesia, NM 88210 (Atoka) North Show Bec 'API Number Pool Code 96.763 30 - 0 25 - 34443 Undesignated Atoka Property Name ' Well Number Property Code 23257 Runnels ASP ¹⁰ Surface Location 11. Lot.lda North/South Line | Feet from the East/West Eas Foot from the Ul or lot no. Section Township Range County 1650 2270 East Lea 35E South 11 16S 11 Bottom Hole Location Feet from the North/South fine Feet from the County UL or lot no. Section Township Range Lot Ida 12 Lee Code | 12 Producing Method Code " Gas Connection Date 15 C-129 Permit Number 16 C-129 Effective Date 17 C-129 Expiration Date 10-12-98 III. Oil and Gas Transporters 2 POD ULSTR Location Transporter OGRID "Transporter Name " POD 21 O/G and Address and Description Unit J - Section 11-T16S-R35E Amoco P/L Int. Trucking *9*822083 138648 502 N. West Avenue Levelland, TX 79336 Agave Energy Co. 2153 Unit J - Section 11-T16S-R35E 105 South Fourth St. Artesia, NM 88210 Produced Water POD POD ULSTR Location and Description 2822154 Unit J -- Section 11-T16S-R35E Well Completion Data Spud Date 4 Ready Date " PBTD M Perforations " Hole Size 11 Casing & Tubing Size 13 Depth Set " Sacks Cement VI. Well Test Data Date New Oil M Gas Delivery Date " Test Date " Test Length " The Pressure " Cag. Pressure " Choke Size " Oil " AOF Test Method * I hereby certify that the rules of the Oil Conservation Division have been complied OIL CONSERVATION DIVISION with and that the information given above is true and complete to the best of my knowledge and bolies Signature: Approved by: Printed name: Title: Geologist Rusty Klein Title: Approval Date: Operations Technician OCT 2 0 1998 Phone: 505-748-1471 of If this is a change of operator fill in the OGRID number and name of the previous operator

Printed Name

Title

Date

Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

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

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT II

WELL API NO.

	30-	025	-34	443	
In diamen	T	~£ 1			

- DATE -

P.O. Drawer DD, Artesia, NM 88210	tw Mexico 67304-2066	5. Indicate Type of Lease STATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410		6. State Oil & Gas Lease No.
SUNDRY NOTICES AND REPORT (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR DIFFERENT RESERVOIR. USE "APPLICAT (FORM C-101) FOR SUCH PROP	TO DEEPEN OR PLUG BACK TO A TION FOR PERMIT	7. Lease Name or Unit Agreement Name
1. Type of Well:		7
MET NET X OUT	9 8	Runnels ASP
2. Name of Operator YATES PETROLEUM CORPORATION	,	8. Well No.
3. Address of Operator	· · · · · · · · · · · · · · · · · · ·	9. Pool name or Wildcat
105 South 4th St., Artesia, NM 88210	0	Townsend Morrow
Unit Letter J : 165() Feet From The Section 11 Township 165	S Range 35E	NMPM Lea County
10. Elevation ((Show whether DF, RKB, RT, GR, etc.) 3997 † GR	
11. Check Appropriate Box to	o Indicate Nature of Notice, F	Penort or Other Data
NOTICE OF INTENTION TO:		SSEQUENT REPORT OF:
<u></u>		SEGUENT REFORM OF:
PERFORM REMEDIAL WORK PLUG AND ABAN	DON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON CHANGE PLANS	COMMENCE DRILLIN	G OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING	CASING TEST AND C	EMENT JOB
OTHER:	OTHER:	· 🗆
12. Describe Proposed or Completed Operations (Clearly state all pentwork) SEE RULE 1103. Spudded a 22" hole with rat hole made pipe. Cemented to surface. NOTE: a 14-3/4" hole with rotary tools at TD 429'. Reached TD at 7:00 AM 7-30 (433.54') of casing set at 429'. Insert float set at 385'. Cemented flocele and 2% CaCl2 (yield 1.32, we Premium Plus and 2% CaCl2 (yield 1.32 to 600 psi, OK. Circulated 85 sacks out at 7:30 AM 7-31-98. WOC 19 hour drilling. NOTE: Notified Linda w/0	Chine at 10:00 AM 7-28-Notified Sylvia w/OCD-1:00 AM 7-30-98. D-98. Ran 10 joints of Texas Pattern notched with 180 sacks Hallibueight 14.8). Tailed in 32, weight 14.8). PD 18. WOC. Cut off and wers and 30 minutes. Red	98. Set 40' of 16" conductor Hobbs of spud. Resumed drilling 11-3/4" 42# H-40 8rd ST&C guide shoe set at 429'. Inton Premium Plus, 1/4#/sack with 200 sacks Halliburton 12:00 PM 7-30-98. Bumped plug yelded on flow nipple. Drilled luced hole to 11". Resumed
$\overline{}$		
I hereby certify that the information above is true, and complete to the best of m SIGNATURE USLY	TITLE Operations	Technician DATE Aug. 6, 1998
TYPEORPRINTNAME Rusty Klein		TELEPHONE NO. 505/748-147
(This space for State Use)	Geolog	1128 OCT 2 () 1000

Submit 3 Copies

CONDITIONS OF APPROVAL, IF ANY: .

State of New Mexico Form C-103 Energy, Minerals and Natural Resources Department to Appropriate District Office Revised 1-1-89 DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION WELL API NO. P.O. Box 2088 30-025-34443 DISTRICT II Santa Fe, New Mexico 87504-2088 P.O. Drawer DD, Artesia, NM 88210 5. Indicate Type of Lease FEE X STATE DISTRICT III
1000 Rio Brazos Rd., Aziec, NM 87410 6. State Oil & Gas Lease No. 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.) 1. Type of Well: WELL [] WELL Runnels ASP 2. Name of Operator 8. Well No. YATES PETROLEUM CORPORATION 3. Address of Operator 9. Pool name or Wildcat 105 South 4th St., Artesia, NM 88210 Townsend Morrow 4. Well Location 1650 Unit Letter South Feet From The 2270 Line and Feet From The Line Section **16S** 35E Township Range **NMPM** Lea County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3997' GR Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data 11. NOTICE OF INTENTION TO: SUBSEQUENT 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 CEMENT JOB Intermediate casing & cement OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. TD 4760'. Reached TD at 6:15 PM 8-9-98. Ran 109 joints of 8-5/8" 42# casing as follows: 13 joints of 8-5/8" 42# H-40 8rd ST&C (569.36') and 96 joints of 8-5/8" 42# H-40 8rd ST&C (4199.82') (Total 4769.18') of casing set at 4760'. Float shoe set at 4760'. Float collar set at 4717'. Cemented with 1300 sacks Halliburton Interfill C, 1/4#/sack flocele (yield 2.42, weight 11.9). Tailed in with 250 sacks Halliburton Premium Plus with 2%

CaCl2 (yield 1.32, weight 14.8). PD 8:30 AM 8-10-98. Bumped plug to 2060 psi, OK. WOC. Nippled up and tested to 5000 psi for 30 minutes, OK. Drilled out at 12:00 PM 8-11-98. WOC 27 hours and 30 minutes. Reduced hole to 7-7/8". Resumed drilling.

I hereby certify that the information above is true and complete to the best of my knowle	des and belief.	
SIGNATURE Waster Killer	mma Operations Technician	DATE Aug. 24, 1998
TYPE OR PRINT NAME Rusty Klein		<u>теле</u> нноме но. 505/748—1471
(This space for State Use)	d Santogist	OCT 2 0 1998
ADDROCKED BY MAN SULLY	TINB	DATE UCI 2 0 1990

and the second of

Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103

OIL CONSERVATION DIVISION

Revised 1-1-89

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION		WELL API NO.
DISTRICT II	P.O. Box 20 Santa Fe, New Mexico		30-025-34443
P.O. Drawer DD, Artesia, NM 88210	Santa re, new Mexico	6 67304-2088	5. Indicate Type of Lease STATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease No.
SUNDRY NOT	ICES AND REPORTS ON WE	LLS	
(FORM C	DPOSALS TO DHILL OR TO DEEPER RVOIR. USE "APPLICATION FOR PE -101) FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agreement Name
1. Type of Well: OIL GAS WELL WELL X	OTHER		Runnels ASP
2. Name of Operator YATES PETROLEUM CORPOR	ATION		8. Well No.
3. Address of Operator		-,, -, -, -, -, -, -, -, -, -, -, -, -	9. Pool name or Wildcat
105 South 4th St., Art	esia, NM 88210	·	Townsend Morrow
	O Feet From The South	•	_
Section 11	Township 16S R ///// 10. Elevation (Show whether	ange 35E	NMPM Lea County
	7/////	7' GR	
11. Check:	Appropriate Box to Indicate		eport, or Other Data
NOTICE OF INT		<u> </u>	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	
OTHER:		OTHER: Perforat	e & frac X
work) SEE RULE 1103. 9-26-28-98 - Cleaned	location, set and test	ted anchors. Mo	
9-29-98 - Rigged up pand tagged PBTD at 12		up BOP. TIH wi	th bit, scraper and tubing
			ested BOP to 3500 psi. TOOH
			th logging tools and ran to displace hole 300'. NOTE:
	ore shooting stim guns		
10-9-98 - Rigged up w	vireline and lubricator	r. TIH with 3-3	/8" stim guns and perforated
			tim guns. Rigged down wireline
			e, packer and tubing. Bottom
	. Packer at 11609'. 000 psi, OK. Swabbed v		P and nippled up 5K tree. Test
			ak in crossover. Shut down.
	Pumped 75 bbls 2% I		
I hereby certify that the information above is true	 		CONTINUED ON NEXT PAGE:
SIGNATURE Austra	<u> </u>	Operations Te	echnician DATE Oct. 8, 1998
TYPEOR PRINT NAME Rusty Klein	i		TELEPHONE NO. 505/748-14
(This space for State Use)			007 0 0 1001
	111/1	Geoleg	ist OCT 2 0 1998
APPROVED BY	13/ auth m	и	DATE
CONDITIONS OF APPROVAL, IF ANY:			·

YATES PETROLEUM CORPORATION Runnels ASP #2 Section 11-T16S-R35E Lea County, New Mexico

SUNDRY NOTICE CONTINUED:

down tree and nippled up BOP. Released packer. Reversed 120 bbls. TOOH with tubing and packer. TIH with knock out plug and tailpipe, packer and tubing. Set packer at 11609'. Tested to 1000 psi, OK. Dropped bar. Knocked out plug. Well started gassing. Tested packer to 1000 psi, OK. Swabbed. 10-3-98 - Rigged up treesaver. Attempted to frac - shut down. Rigged down treesaver. Bled well down. Pumped 70 bbls 2% KCL down tubing. Nippled down tree. Nippled up BOP. Released packer. TOOH with tubing and packer. Rigged up Bo Monk pipe testers. TIH with 1.81" F nipple, 10 joints tailpipe, Arrow-set packer and tubing. Tested tubing to 10000 psi, OK. Nippled down BOP and nippled up tree. Set packer at 11641'. Tested packer and tree to 2500 psi, OK. Swabbed well down. 10-4-98 - Rigged up treesaver. Frac'd perforations 12008-12025' (Atoka) with 39500 gallons 70Q binary foam, 3000 gallons methanol 40# CMHPG, 70 tons CO2, 450000 scf N2 and 47000# 20-40 Interprop. Rigged down treesaver. Shut well in for 2 hours. Opened well up and flowing back frac. Shut well in. 10-5-98 - Flowed back. Shut well in. 10-6-98 - Released well to production department.

Rusty Klein

Operations Technician October 8, 1998

District I
PO Box 1986, Hobbe; NM 88241-1996
District II
PO Drawer DD, Artesia, NM 88211-9719

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office

PO Drawer DD, District III 1000 Rio Brazos					ERVA' PO Box Fe, NM	2088		ON	Subm	it to Appropr	iate District Office 5 Copies
District IV				y Sailta I	. C, 141VI	0750-	-2000			☐ AM	ENDED REPORT
PO Bog 2088, Se			T FOR A	LLOWAE		ND AU	THOR	IZAT	ION TO TR	ANSPORT	
Yates	Petrol	eum Coi	o perator i rporation		•					025575	ow.
		urth Si	-	•					 ;	Remon for Fills	r Code
Artesi	a, NM	88210				•			Sell appro DST - 1135	\mathbf{x} 75 BO:	recovered on
• •	PI Number		1 1 6	1 00 0) ;	Pool Nem			ps1 - 1135		Pool Code
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¹ Pr	30 - 0 25-34443						201			1,00	Vell Number
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II. 10 S	Surface	Locatio	n								
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11 F	3ottom	Hole Lo	ocation								
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III. Oil a	nd Gas	Transno	nters							l	
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V. Well	Comple	tion Da	ta								
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	" Hole Siz	:	11	Casing & Tubi	ng Sine		n	Depth S	d	n Se	iks Cement
											
VI. Well	Test D	ata				l	 • •••••		·		
Date !	New Oil	" Ga	Delivery Date	* Т	cat Date		" Tast La	agth	" Tbg. Pi	CESU PC	" Cag. Pressure
			·								
" Chol	ke Size	, i	" Oil	•	Water		₫ Ga	•	" AC	F	" Test Method
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Printed name:	Rust	y Klei	n '			Title:		GA	HXOW. WIN	ለ ለ ጉነ / ር- የየ	
Title:	Oper	ations	Technic			Approx			PRESENT.		
Date: Sep	t. 11,	1998	Phone:	505-748	1471			001	0 6 1998		
" If this is a	change of o	perator fill	in the OGIUD	miniber and nam	e of the pro	evious oper	relor		·· ·		
 	Previous	Operator S	Signature			Prin	ted Name			Title	Date

District F PO Box 1230, Hobbs, NM 88241-1980 District II PO Brawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

■ AMENDED REPORT

		WIE	LL LO	CATIO	N AND A	CREAGE 1	DEDIC	CATION PI	LAT		
∫ '∧	PI Numb	er	Pool Code W Shoe Ba Pool Name 56270 Understand Strawn								
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4 Property (Code				¹ Prop	erty Name					Well Number
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OGRID N	ia.		_	_	-	ator Name					* Elevation
025575	i	Yat	es Pet	roleum	Corporat					L	3979 '
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11 Bottom Hole Location If Different From Surface											
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								Rusty K			
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District :

PO Box 1980, Hobbs, NM 88241-1980

District II

811 South First, Artesia, NM 88210

District III

1000 Rio P

Di

20

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco

Form C-101 Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

OU Rio Brazos Re	d., Aztoc, N	M 8/410		Sai	nta Fe, NM	87505				ree	Lease - 5 Copies
istrict IV 40 South Pachece	o, Santa Fe,	NM 87505								AMENI	DED REPORT
<u>APPLICA</u>	TION I	FOR PE				TER, DEE	PEN, PL	UGB/	<u>ACK,</u>		D A ZONE
		v			se and Address. m Corpor	ation			İ		RID Number
		1	ates I c		in Corpor. Ith Street	анин			}		5575 PI Number
			Artes		Mexico 8821	0					25-34443
4 Prope	rty Code		71100	141, 11011		roperty Name				<u> </u>	' Well No.
	157		•			ls "ASP"				1.	2
·					⁷ Surface	Location					
UL or lot no.	Section	Township	Range	Let Idn	Feet from the	North/South lis	e Feet fr	om the	East/W	est line	County
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		8 P	roposed	Bottom	Hole Locat	ion If Diffe	rent Fron	m Sur	face		
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South E	ne Feet fr	om the	East/V	est line	County
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	Townsend Morrow										
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	Type Code		¹² Well Typ	e Code	1	-/Rotary	14 Leas	ode	16 Ground Level Elevation		
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Hole S	ize	Cas	ing Size		ng weight/foot	Setting De			of Cemen	1	Estimated TOC
14 3	/4"	11	3/4"		42#	450 '		300 sx		C:	irculate
11"		8	5/8"		32#	4750 '		1300) sx	C.	irculate
7 7	/8"	5	1/2"	15.	5# & 17 #	12,500'		650) sx		9000'
" Describe the	proposed p	rogram. If	this applicat	ion is to DEE	PEN or PLUG BA	CK give the data	on the presen	t product	ive zone s	and propose	ed new productive
Yates Pe	troleur	n Corpo	ration	propos	dditional sheets if : es to dril	l and test	t the Mo	orrow	and :	intermo	ediate
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and ceme	_				oximately						l be set ented, will
					for produc		ing wir.	r be i	Lun a	na ceme	enced, will
MUD PROG					LCM; 450'-		ne; 4750	D'-940	00' C1	ıt Bri	ne/Starch
		9400'-1	1,200'	Salt G	el/Starch;	11,200'-	TD Salt	Gel/S	Starcl	n/2% K0	CL.
BOPE PRO	GRAM:			instal	led on the	. 8 5/8" da	asing ar	nd tes	sted o	daily i	for
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of my knowled	tify that the i	information g	iven above is	true and com	picte to the best	O1	L CONS	SERV	ATIO	N DIVI	SION
Signature:	(0.	1+	R. Y	Nan		Approved by:	Chair	1/4	Me	•	·
Printed name:	CITEM	N R. I	/AV	< T		Title:	DISTRIC	Tic		RVISOI	•
Title:						Approval Dajoj					0.6.1998
Date:	REGUL	ATORY A	GENT Phone			Conditions of App	0619	<u>48</u>	1	งบน	- India
Jul Jul	y 1, 19	998	1	505-748	3-4347	Attached			· 		

Revised February 10, 1994 Instruction on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

Bast/West line

County

DESTRICT II P.G. Drawer DD, Artesia, NM 88210

1000 Rio Brazos Rd., Antec, NM 87410

DISTRICT III

UL or lot No.

Dedicated Acres

320

Section

Township

Joint or Infill

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Number							٧			
Property 2325				f	Property Name RUNNELS ".	roperty Name Well Number NELS "ASP" 2					
0GRID N 02557				YATES	•	Operator Name FROLEUM CORPORATION					
					Surface Loc	ation		·			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
J	11	16 S	35 E		1650	SOUTH	2270	EAST	LEA		
	<u> </u>	<u> </u>	Rottom	Hole Loc	eation If Diffe	rent From Sur	face		·		

Feet from the

Order No.

North/South line

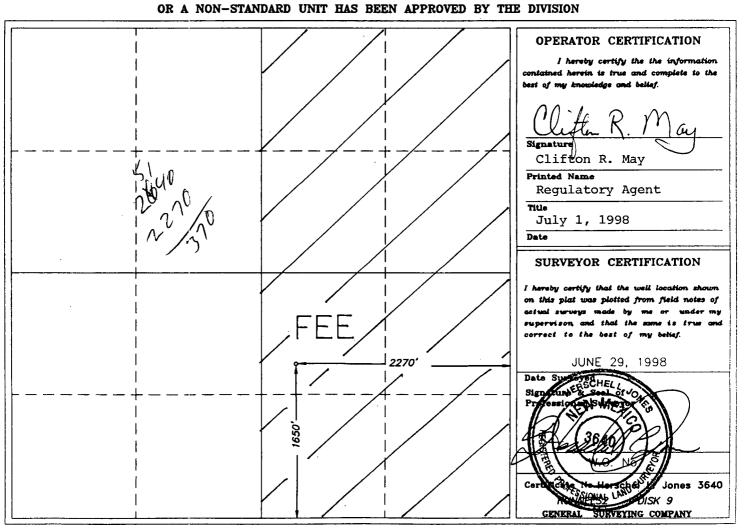
Feet from the

Lot Idn

Range

Consolidation Code

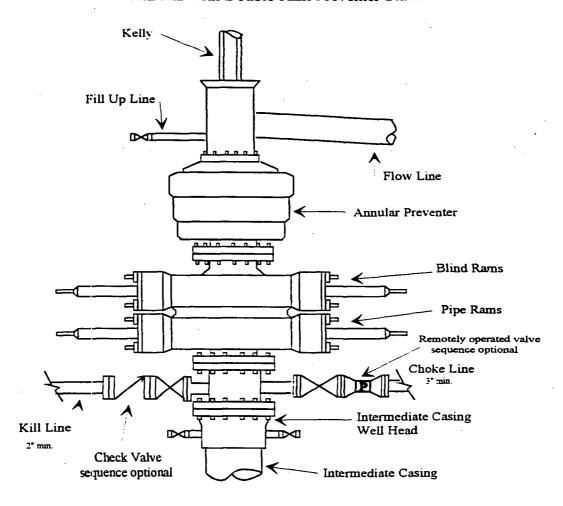
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



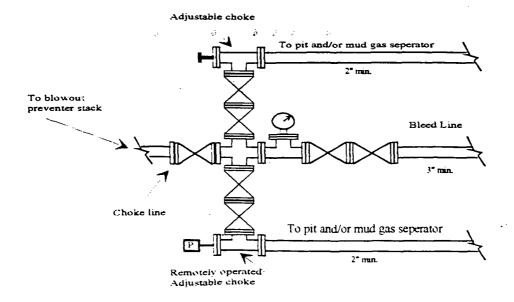


Yates Petroleum Corporation

Typical 5,000 psi Pressure System
Schematic
Annular with Double Ram Preventer Stack



Typical 5,000 psi choke manifold assembly with at least these minimun features



<u>DISTRICT I</u> P.O.Box 1980, Hobbs, NM 88241-1930 State of New Me ::::
Energy, Minerals and Natural Resources Department

Form C-107 Revised 4-1-91

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

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

OIL CONSERVATION DIVISION

Filing Instructions Bottom of Page

DISTRICT III 1000 Rio Brazos Rd, Azzec, NM 87410

APPLICATION FOR MULTIPLE COMPLETION

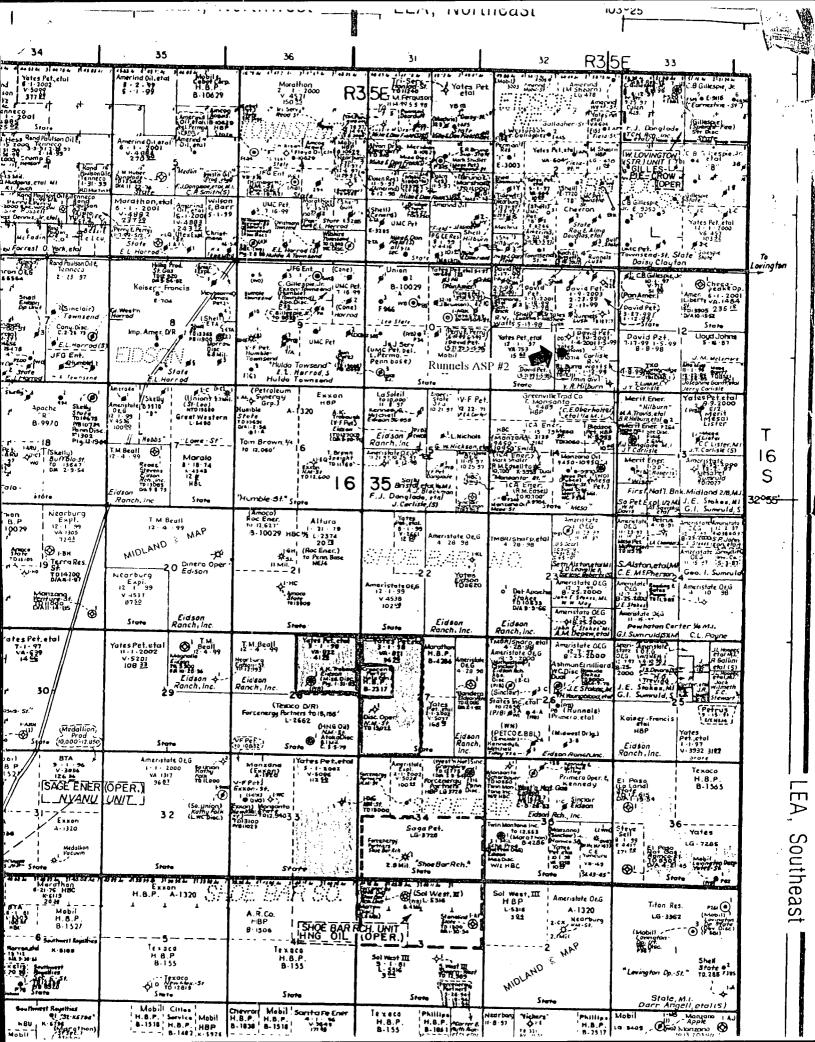
Yates Petroleum Corpo	ration 105 S.	4th Street, Artesia, NM	88210
Operator	Addre	22	
Runnels ASP	J	11 16S 35E	Lea
Lease	Well No. Unit L	.r Sec - Twp - Rge	County
All applicants for multiple comple	etion must complete Items 1 and	2 below.	
The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Shoe Bar North Strawn		Townsend Atoka
b. Top and Bottom of Pay Section (Perforations)	11385-11470		12008-12025
c. Type of production (Oil or Gas)	Oil		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing	NOV 25 1998	Flowing
e. Daily Production Actual Estimated Oil Bbls. Gas MCF Water Bbls.	(ESTIMATED) 440 BOPD 700 MCFGPD 0 BWPD	Magazine and the second second second second second second second second second second second second second se	(ACTUAL) 2874 MCFGPD 3 BOPD
and location thereof, quantit of packers and side door che b. Plat showing the location of offsetting applicant's lease. c. Electrical log of the well or	ies used and top of cement, perforated in thes, and such other information as ma- fall wells on applicant's lease, all offset	wells on offset leases, and the names a	ters and setting depth, location and type and addresses of operators of all leases
OPERATOR:	mplete to best of my knowledge, and belief	OIL CONSERVATION	DIVISION
Signanure Mossus Ka		Approved by:	
Printed Name & Title Morris	Keith, Operations Engine	Title:	
Date November 24, 1998		_	
	n will result in an unorthodox well location a t be filed simultaneously with this application	ind/or a non-standard proration unit in one or	more of the producing zones, then separate

FILING INSTRUCTIONS:

1) District Approval - See rule 112-A-B - Submit 4 copies of Form C-107 with attachments to appropriate district office.

Division Director Administrative Approval — See Rule 112-C — Submit 2 copies of Form C-107 with attachments to Division office in Santa Fe and 2 copies of Form C-107 with attachments to appropriate district office.

3) Multiple completions not qualifying for District or Division Director approval may be set for hearing as outlined in Rule 112-A-E.



OFFSET OPERATORS

- Ocean Energy Resources, Inc. 410 17th Str. Suite 1400 Denver, CO 80202
- C. B. Gillespie, Jr.
 P.O. Box 8
 Midland, TX 79702-0008
- Merit Energy
 12222 Merit Drive
 Suite 1500
 Dallas, TX 75251-3206
- Monzano Oil Corp.
 P.O. Box 2107
 Roswell, NM 88202-2107
- Ocean Energy, Inc. 410 17th Str. Suite 1400 Denver, CO 80202

Yates Petrole	
LEA NM LINER UPPER 27/8" L.5" N-20 E.L LATCH LATCH LATCH LOVER LOVER LOVER LATCH LATCH LOVER LOV	
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3 1126.75 30.00 2441 TUBING 21/6. E. 1 JOINT	
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WELL NAME: Kunnels ASI	3 1/2	FIELD AREA:		
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COMMENTS:		SIZE/WT./GR./C	CONN.	DEPTIL SE
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12,576				
51/2"e	12,620 cm	1 - 1875 sks		
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P.O.Box 1980, Hobbs, NM 88241-1930

State of New Me Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

Form C-107 Revised 4-1-91

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

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

Filing Instructions Bottom of Page

Lea

DISTRICT III 1000 Rio Brazos Rd, Azzec, NM 87410

Operator

Yates Petroleum Corporation

C-107 with attachments to appropriate district office.

APPLICATION FOR MULTIPLE COMPLETION

Address

J

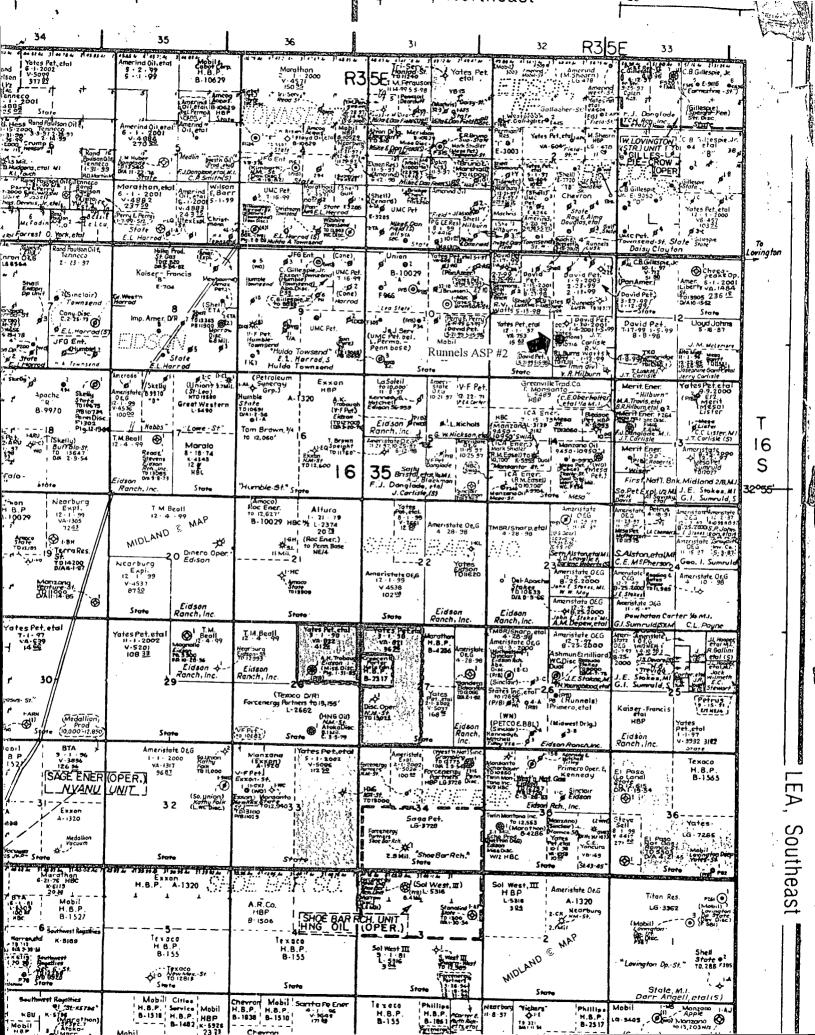
2

105 S. 4th Street, Artesia, NM

11 16S 35E

Runnels ASP	2 J	11 16S 35E	Lea
Lease	Well No. Unit I	r Sec - Twp - Rge	County
All applicants for multiple comple	etion must complete Items 1 and	2 below.	
The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Shoe Bar North Strawn	1/1/4	Townsend Atoka
b. Top and Bottom of Pay Section (Perforations)	11385-11470	NUV 25 1998	12008-12025
c. Type of production (Oil or Gas)	Oil		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
e. Daily Production Actual Estimated Oil Bbls. Gas MCF Water Bbls.	(ESTIMATED) 440 BOPD 700 MCFGPD 0 BWPD		(ACTUAL) 2874 MCFGPD 93 BOPD
and location thereof, quantit of packers and side door ch b. Plat showing the location of offsetting applicant's lease. c. Electrical log of the well or	Multiple Completion, showing all casing the sused and top of cement, perforated it okes, and such other information as many fall wells on applicant's lease, all offse	t wells on offset leases, and the names a	ers and setting depth, location and type and addresses of operators of all leases
OPERATOR:		OIL CONSERVATION	DIVISION
Signature Mossos Ko	1	Approved by:	
Printed Name & Title Morris	Keith, Operations Engin		
Date November 24, 1998	Telephone 505-748-4182	Date:	
NOTE: If the proposed multiple completion	748-4585 F	and/or a non-standard proration unit in one or	more of the producing zones, then separate
FILING INSTRUCTIONS: 1) District Approval — See rule 112-A-	d be filed simultaneously with this application B Submit 4 copies of Form C-107 with a proval See Rule 112-C Submit 2 copi	•	on office in Santa Fe and 2 copies of Form

Multiple completions not qualifying for District or Division Director approval may be set for hearing as outlined in Rule 112-A-E.



OFFSET OPERATORS

- Ocean Energy Resources, Inc. 410 17th Str. Suite 1400 Denver, CO 80202
- C. B. Gillespie, Jr.
 P.O. Box 8
 Midland, TX 79702-0008
- Merit Energy
 12222 Merit Drive
 Suite 1500
 Dallas, TX 75251-3206
- Monzano Oil Corp.
 P.O. Box 2107
 Roswell, NM 88202-2107
- Ocean Energy, Inc. 410 17th Str. Suite 1400 Denver, CO 80202

COMPACT DET.	1 5.20		CALOS TOS	Runners HSP - A
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	-			27/8" Fu 12PLS 55231-E
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WELL NAME: Runnels ASP" #2 **LOCATION: 1650' FSL * ZZ70' FEL SEC	CII TILS R35F IIn LO NM
GL: 3997' ZERO: ' AGL: '	7,00
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COMMENTS:	SIZE/WT./GR./CONN. DEPTH SET
	113/4" 42+ 4-40 STC 429"
ATOKA PROD STRAWN PRODUCTION 2874 MCFGPD EST - 440 BOPP, 700 MCFGPD	85/8" 32" N-80 569 85/8" 32" J-55 4199
93 8000	
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Description: SE/4 Sec. 8 (R-4014 9-1-70)

Ext: F Sec. 8 (R-4041 11-1-70) - 7 4 = 5ec. 9; = 5ec. 10; = Sec. 15(R-4304 6-1-72)

= - Sec. 17 (R-435 (8-1-72) - 2 Sec. 16 (R-4423; 11-1-72) Ext: All Sec. 14 (R-4809, L-18-74) Ext. E/25ec/6 N/25ec 21 (R-6005 6-1-29)

Ext. 1/2 Sec. 20 (A-6657, 4-20-81) Ext. 1/25ec 23 (R-6876, 1-22-82)

Ext. No. 1 Sec. 17 1/2 and 1/2 Sec. 18 (R-10872, 4-13-98)

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Stogner, Michael

From:

Stogner, Michael

Sent:

Tuesday, December 01, 1998 4:42 PM

To:

Williams, Chris

Cc:

Wrotenbery, Lori

Subject:

Yates' Runnels ASP #2

Chris:

I'm faxing you a copy of the well file, the application, and my letter of Monday, November 30, 1998 to Yates concerning their Multiple Completion request. This application from Yates was dated (Tuesday) Nov. 24, 1998. It was received here in Santa Fe on (Wednesday) Nov. 25, 1998. It did not hit my desk until Monday, Nov. 30, 1998 and at that time I (naturally dropped everything and) reviewed it. It lacked essential data that I could not reconstruct since I did not have the raw data to do the necessary engineering calculations needed to support their filing. I therefore wrote a letter requesting this additional information. I also found the location to be unorthodox and I included a request for a copy of any such approval (I found no record here in Santa Fe that they ever requested this prior to the drilling of this well). I mailed you a copy of the well file, my letter, and their application on Monday. You may get it either tomorrow or Thursday. This will of course be too late since they called you today checking its status. Call me if you need anything further. Sorry about this but I could not approve this application without this information. I know at least that you understand.

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(R-10910, 10-31-97) Ext: Lot 8 Sec. 2 (X-10972, 4-13-98)

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Description: 5/4 Sec. 15: (R-1283 12-1-58).

Ext: 1/2 Sec. 15 (R-8356, 12-3-86)

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District I PO Box 1986, Hobbs, NM 88241-1986

State of New Mexico
Emirgy, Minerals & Natural Resources Department

Form C-104 Revised February 10, 1994

Diaries [] PO Drawer DD, Artesia, NM #2211-0719

Instructions on back Submit to Appropriate District Office 5 Copies

District III

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe. NM 87504-2088

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				··	4		100	1. A.				
<u> </u>			·······					M				
	:					4						
IV. Produ	uced Wa	eter			_			, ·	<u>. </u>			
	POD					" POD UI	LSTR Locat	ion and I)escriptios	-		
28221			J - S	ection [11-T1	6S-R35E		·				
		tion Data		- 		n 457	-					
RH 7-28 RT 7-30	ud Date -98	1	" Ready D	j	l	"TD			* P8TD			Perforations
אני-/ KT	-98 ** Hole Size		10-6-	98 Casing & Tub	ing Size	12620 		Depth Se	12409'			8-12025 1
······································	22				16"			40		Comon		surface
	14-3/4			11_	3/4"			429				irculate
	11"				5/8"			4760				
	7-7/8	.11										circulate
VI. Well					1/2" 7/8"			12620 11632	·	1825	sx	
Date 1			livery Date		Test Date		" Test Le		" Tbg. P	Lemnic		" Cag. Pressure
10-1			2-98		-21-98	8	24 hot		1350) <i>#</i>		Packer
" Chol			Oil		Water		o Gaa		* A	OF.		" Test Method
17/64		ules of the Oil C		Division have I	0 been come	lind II	2189	9			F	low Test
	be jalgrammic	n given above is					Ol	IL CO	NSERVAT	NOI	DIVIS	ION
Signature:	L' -	r-K	1.)		Approv	ed by:	M	. 116.	120	~ P4	•
Printed name:	Jun	y 1	lin			Title:	חופ	AAC	P1 SUPE	EN S	DH2	
Title:		y Klein					al Date:					
		tions Te		an 05-748-	1/71			1101	1 7 1998			
11000	ember 9	, 1998 erator fill in the				Description apper				سس		
	enames or al			MIV	46 0	hinings -b	ator			14		
	Previous	Operator Signat	lure			Prin	ted Name			<u>7</u>	Title	Date

State of New Mexico Energy, Minerals and Natural Resources Department

S' brink to Appropriate
District Office
State Lease — 6 copies

rorm C	-102
Revised	1-1-89

DISTRICT I P.O. Box 1980, Hobbs,	NM 88240		OIL	CONS		ATION Box 2088		VISIC	N	WELL A		0-025-	34443	
DISTRICT II P.O. Drawer DD, Artes	ia, NM 8821	0 -		Santa Fe,		Mexico 8		2088		5. Indica	ас Туг	oe of Lease ST	ATE [FEE X
DISTRICT III 1000 Rio Brazos Rd., A	ziec, NM 8	7410								6. State	Oil &	Gas Lease l	√o.	
WELL	OMPLET	TION (OR BE	COMPLE	TION	REPORT	AND	LOG						
Ia. Type of Well: OIL WELL		WELL		DRY [R				7. Lease	Name	or Unit Ag	reement h	Name
b. Type of Completion	:													
WELL WORK OVER	$\overline{}$	EN 🗌	PLIJO BACK		DIPP RESVR	Onex_		·				Runnel:	s ASP	
2. Name of Operator	FIM CO	n non a	TT OM		,	505) 7/	0 1/			8. Well	Na.			·
YATES PETRO] 3. Address of Operator		KPUKA	TITON			505) 74	8-14	/1		9. Pool	name (r Wildcat		
105 South 4th		Artes	ia, N	√M 882	10	•				Sì	ioe '	Bar Ato	oka. N	North
4. Well Location														·
Unit Letter _	<u>J</u> : -	1650	O Feet	From The	Sou	ith	Li	ne and	2270	1	Foet Fr	om The _	East	Line
Section	11			nahip	16S	Rang		35E		MPM		Lea		County
10. Date Spudded RH 7-28-98 RT 7-30-98		6-98		1	0-6-9			13. Elevi		F&RKB, I 'GR			14. Elev.	Casinghead
15. Total Depth 12620	16. 1	lug Bac	k T.D. 409'		17. If Mu Many	ttiple Compl	. How	18.	Intervals Drilled I	ì., ·			Cable To	ools
12020 19. Producing Interval(s), of this com			attom, Name						40-	-126	20 ' 0. Was Dire	ctional Si	rvey Made
12008-1202		-	.07, 20								-	o <i>D</i>	No	a vey mass
21. Type Electric and O	ther Logs Ru	tero	log							22. W	as We	I Cored	No	
23.				SING D	ECUE	RD (Repo	ort all	ctrings	cet in	11/011)				
CASING SIZE	WEIC	HT LE			H SET		OLE S			EMENTIN	NG RI	ECORD	AM	OUNT PULLED
16"					40 '			2"		nt to				
11-3/4"	42#				429 <u>'</u>		L4-3/	4"				culate		
8-5/8" 5-1/2"	32# 17#				760' 620'		1 <u>"</u> 7-7/	oll			cir	culate.	_	
3-1/2	1711			12	.020		1-11	0	1825	sx				
24.			LINE	R RECO	RD				25.		TUI	BING RE	CORD	
SIZE	ТОР		ВО	ттом	SACKS	S CEMENT	S	CREEN		SIZE		DEPTI		PACKER SET
					<u> </u>		ļ			2-7/8 "	<u> </u>	116	32'	11641'
26. Perforation rec	ord (interv	al, size	and n	umber)	<u> </u>		27.	ACID,	SHOT	FRAC	TURE	CEME	VT. SOI	JEEZE, ETC.
12008-12025				,			DE	ודאו וודק	ERVAL					ERIAL USED
								008-1:				w/3950		
												nanol 4 2 & 470		HPG. 70 ::
28.					PRO	DUCTIO				<u>∪∪ ∪ SC</u> —.	<u>. T . T.Y .</u>	<u> </u>	VVII Z	U-4U
Date First Production			Productio			as lift, pump	ing - Siz	e and type	pump)			Well Sta	tus (Prod	or Shut-in)
10-12-98	Hours Te		——————————————————————————————————————	hoke Size	Flowi	ng 'n For	Oil - Bt		Gas - I	ACE.	<u> </u>	Pr	<u>oduci</u>	ng Gas - Oil Ratio
Date of Test 10-21-98	24	SLOU.		17/64"		Period	86		218	_	**	()	1	Cas - On Ratio
Flow Tubing Press.	Casing Pr	ressure	_ c	siculated 24-	Oil -	Вы.		s - MCF		Vater - Bbl			vity - API	- (Corr.)
1350#	Pack	er		our Rale	<u> </u>	86		2189	L	0			N/A	
29. Disposition of Gas (S	Sold, used for	fuel, ve	nted, etc.)						1	_	inessed By cy Harp	er	
30. List Attachments														
Drill Stem 5	rests,	Devia	tion	Survey	& Lo	gs form in true	and co	mnlete	the ha	t of my b	noule	doe and he	lief	
31. I nereby certify the	µ ine injorn	wion s	rurwit Ol	s voin sides	oj inus j	orn is ir ite	LO	mpiere ic	, inc ve	. oj my M	a TV IC	-se was ve	•••	
Signature <u>K</u>	usty	1	lin	<u>/</u>	Printed Name	Rusty	Klei	n	1	ide <u>Ope</u>	rati	ions Te	<u>ch.</u> Da	te 11-9-98
i,	/1	1												

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-drilled 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 special ests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be illed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

So	utheastern	ı New Mexico		Northwe	estern New Mexico
T. Anhy		T. Canyon		T. Oio Alamo	T. Penn. "B"
T. Salt		T. Strawn	11323'	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt		T Atolca	11653'	T. Pictured Cliffs	T. Penn. "D"
T. Yates	3111	T. Atoka T. Miss Lime	12532'	T. Cliff House	T. Leadville
		T. Devonian			T. Madison
T. Queen		T. Silurian			T. Elbert
T. Gravburg		T. Moutova		T. Mancos	T. McCracken
T. San Andres	4717'	T. Simpson		T. Gallup	T. Ignacio Otzte
T. Glorieta	6276 '	T. McKee		Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger		T. Dakota	T
T. Blinebry		T. Gr. Wash		T. Morrison	т
					т
T. Drinkard		T. Bone Springs			T
T. Drinkard T. Abo	8125'	T Morrow Lime	12080'	T. Wingate	T
T. Wolfcamp	9610'	T. Austin Cycle	12248'	T. Chinle	T
T. Penn		T. Chester	12402'	T. Permain	T
T. Cisco (Bough C)_		т			T
		OILO	R GAS SA	ANDS OR ZONES	
No. 1, from	•••••	to	•••••	No. 3, from	lo
		to			to
		IMPO	PRTANT	WATER SANDS	
Include data on rate of	of water inflo	w and elevation to which	ch water ros	e in hole.	•
No. 1, from		to		feet	•••••••
No. 2, from	•••••	to	•••••	feet	••••••
No. 3, from	••••••	to		feet	***************************************
	LIT	THOLOGY REC	ORD (A	Attach additional sheet if n	ecessary)

From	То	Thickness in Feet	Lithology	From	То	Thickness in Feet	1	ithology
0	429	429	Surface					
429	605	17.6	Redbed & anhydrite			1 1		
605	1570	965	Redbed	1		1		
1570	2245	675	Redbed, salt & anhydrite	ł	:	1 1		
2245	3285	1040	Anhydrite & salt			1		
3285	4320	1035	Anhydrite & dolomite	1		1 1		
4320	4841	521	Anhydrite, dolo & shale]		}		
4841	5410	569	Anhydrite & dolomite					
5410	8130	2720	Anhy, dolo, shale & sand	1		1 1		
8130	9070	940	Dolomite, anhy & shale			1		
9070	9600	530	Dolo, lime, shale & anhy			1 1		
	10125	525	Lime, shale, dolo & sand					•
10125	11355	1230	Lime, shale & sand	i i		1		•
11355	11426	71	Lime & shale])	
11426	11704	278	Lime	}		1	,	Gran e
11704	12494	790	Lime, shale & sand			1		
12494	12620	126	Lime & shale			1		, 4
				'		1 1		well.
]] [
				[! [•

YATES PETROLEUM CORPORATION Runnels ASP #2 Section 11-T16S-R35E Lea County, New Mexico

RESULTS OF DRILL STEM TESTS:

DST #1 11354-11405': Misrun

DST #2 11354-11405' (Strawn): <u>TIMES:</u> TO 7"; SI 60"; TO 60"; SI 180". <u>RECOVERY:</u> 2137' of oil and 81' of mud. <u>SAMPLER:</u> 12.1 cfg, 1050 cc oil and 100 cc mud. <u>PRESSURES:</u> 1HP 5475; IFP 3242-3299; ISIP 4232; FFP 4018-4116; FSIP 4229; FHP

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	Number 5-34	5-34443 96763 North Shoe Bar Atoka							
Property 232					Property Nam RUNNELS "			Well No	umber
0GRID N 02557				Meva 397					
					Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
J	11	16 S	35 E		1650	SOUTH	2270	EAST	LEA
			Bottom	Hole Lo	cation If Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	lot idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Con	molidation (Code Or	der No.				
NO ALLO	WABLE W					NTIL ALL INTER		EEN CONSOLIDA	TED

OR A NOR-SIANDARD ONLY HAS BEEN APPROVED BY THE DIVISION											
	· · · · · · · · · · · · · · · · · · ·			OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.							
	 	//	+	Clifta R. May Clifton R. May							
	 			Printed Name Regulatory Agent Title July 1, 1998							
÷	 			SURVEYOR CERTIFICATION I hereby certify that the well location shown							
		FEE		on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.							
	<u></u>		2270'	JUNE 29, 1998 Date Superior HELL Signature Eschell Profession and Superior As							
 	•	1650'.		Certandra Ne Herschell Jones 3640							
·.				Certain No Horschell Jones 3640 CENERAL SURVEYING COMPANY							

Deviation surveys taken on Yates Petroleum Corporation's Runnels ASP #2 well in Lea County, New Mexico: Unit J 11-16-35

	1650/5	+ 2270/E					
Depth	Degree	30.025-34443					
190	.75	30 025 34443					
429	.75						
659	1.00						
1002	.75						
1282	.75						
1527	1.00						
1746	.75						
1901	.75						
2088	.50						
2274	.50						
2523	.75						
2773	.50						
3026	1.00						
3088	.75						
3335	.75						
3580	.75						
3922	.25						
4295	.75						
4760	1.00						
5226	. 7 5						
5723	1.25						
6220	1.25						
6717	1.00						
7190	1.25						
7475	1.25						
7971	1.00						
8474	1.00						
8977	.75						
9488	1.00						
9973	1.00						
10,477	1.50						
10,728	1.25						
10,977	1.50						
11,195	1.50						
11,405	1.25						
11.659	1.25						
11,907	1.75						
12,005	1.50						
12,250	3.00						
12,345	2.75						
12,620	2.25						

I hereby certify that I have personal knowledge of the facts placed on this sheet and that such information given above is true and complete.

Norton Drilling Company

Before me, the undersigned authority, on this day personally appeared Sherman H. Norton, Jr., known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is the drilling contractor of the well identified in this instrument and that such well was not intentionally deviated from the vertical whatsoever.

SWORN AND SUBSCRIBED TO before me this 24th day of September 1998.

PAT FARRELL Notary Public, State of Texas My Commission Expires 04-09-2000

Lubbock County, Texas.

District I PO Box 1980, Hobbs, NM \$8241-1980 District II

PO Drawer DD, Artesia, NM 88211-9719 District III

OIL CONSERVATION DIVISION
PO Box 2088

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-104 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office
5 Conies

1000 Rio Brazos	Rd., Aztec.	NM 87410			e, NM							3 Copics
District (V				,	,						AMI	ENDED REPORT
PO Box 20 68 , S. [.	iota Fe, NM Ri	87504-2088 FOLIEST	r FOR A	LLOWAE	LE AN	ID AU	THOR	IZAT	TOT NO	RANS	PORT	•
		<u>cqora</u> .		ne and Address							ID Numb	
Yates	Petrole	eum Cor	poration							0255	75	j
		irth St	-						•	Remon (Code
Artesi	a, NM	88210			75 76				Test perf	s 120	08-12	2025' (Atoka)
	PI Number	Т						ICFPD	down line	tor		per, 1998
30 - 0 25~			Undesig	\mathcal{N}_{nated} At	ord \	Shee.					96	763
' Pr	operty Code				, b.	roperty Na	1254					di Number
2325	7		Runne1s	ASP								2
II. 10 S	Surface	Location										
Ul or lot 20.	Section	Township	Range	Lot.lda	Feet from	the	North/So	ath Line	Feet from the	East/W	cat Line	County
J	11	16S	35E		1650)	Sout	:h	2270	Ea	.st	Lea
		Hole Loc			1	·	<u> </u>		 			·
UL or lot so.		Township		Lot Ida	Feet from	a the	North/Sc	reth line	Feet from the	East/W	cat line	County
13 Lae Code	11 Produci	ng Method C	ode 14 Gas	Connection Dat	• " C	-129 Perm	it Number	Ţ-,	C-129 Effective	Date	" C-	129 Expiration Date
P]	F	10	-12-98	_1_							
III. Oil a	nd Gas	Transpor	ters									
Transpor			Transporter !			¹⁴ PO	D	11 O/G		POD U		
OGRID			and Aildren						77 74 7		Descriptio	
138648			Int. Tr	_	2	322	083	0	Unit J -	Secti	on 11	L-T16S-R35E
100			st Avenu , TX 79		1.0				★ 50: 40:			l
				-350	:2 (The second	100	<u> </u>	Unit I -	Soati	on 11	L-T16S-R35E
147831			rgy Co. Fourth	St	2	322	155	G	onite 3 -	secti	.011 110.	1-1109-K37F
			NM 8821									
				<u> </u>								
												1
						4	i. Na sign					Ì
												1
4	ē						Ville.	<i>!</i>				
IV. Prod	uced Wa	ater							·	<u>.</u>		
	POD	ď				¹ POD U	LSTR Local	tion and l	Description			
2822	154	Uni	t J - Se	ection 1	L-T16S-	-R35E			·			
		tion Data										
Sp	ud Date		" Ready D	aic		" TD			" PBTD			Perforations
	" Hole Size		31	Casing & Tubii	ng Sine		n	Depth S	et.		³³ Seci	ka Cement
			ĺ			1			[
				-, ,,	······································					"		
			 								= -	
												
L						l						
VI. Well				·			<u> </u>					
M Date !	Vc≠ Oil	" Gas I	Delivery Date	*т	est Date		" Tool La	egth.	" Tbg. P	ressure		" Cag. Pressure
		1	, 									
" Choi	ke Size	1	" Oil	٩	Water		a Ga	•	" At	O F		" Test Method
1	-			Division have be	•			II CC	Michary	TON	חווייי	ION
knowledge and	//	m Braces spoac	/ is true made cox	nplete to the bea	ч от шу		U	IL CC	NSERVAT	IUN .	21 אוט	NON
Signature:	K	t. H	$\langle I_{I} \rangle$	/		Approv	ed by:	/	100	2/2		
Printed name:	<u> </u>	21	Helm	<u> </u>		Title:	-4	eolog	ist 7	1	LEFT,	
\	Rust	y Klein	· · · · · · · · · · · · · · · · · · ·			J		e o rog	131			
Title:	Opera	itions '	Technici	an		Approx	vai Date:	n	CT 9 0 19	98		
Date: Oct.	9, 19	98	Phone: 5	05-748-1	471							
" If this is a	change of o	erstor fill in	the OGRID n	umber and nam	e of the pre	vious oper	TALOF					
<u></u>									<u> </u>			
1	Previous	Operator Sig	nature			Prio	ted Name			1	litle	Date

Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

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

Santa Fe, New Mexico 87504-2088

OIL CONSERVATION DIVISION P.O. Box 2088

WELL API NO.

30-025-34443	3
Time of Lease	

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

The Day Indian, 1111 out to	STATE FEE X				
DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410	6. State Oil & Gas Lease No.				
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A					
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name				
1. Type of Well: OR. WELL	Runnels ASP				
2. Name of Operator YATES PETROLEUM CORPORATION	8. Well No.				
3. Address of Operator	9. Pool name or Wildcat				
105 South 4th St., Artesia, NM 88210 4. Well Location	Townsend Morrow				
Unit Letter J: 1650 Feet From The South Line and 227	O Feet From The East Line				
Section 11 Township 16S Range 35E	NMPM Lea County				
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3997 GR					
11. Check Appropriate Box to Indicate Nature of Notice, R	Report, or Other Data				
	SEQUENT REPORT OF:				
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING				
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING	G OPNS. PLUG AND ABANDONMENT				
PULL OR ALTER CASING CASING TEST AND C	EMENT JOB				
OTHER: OTHER:					
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, incle work) SEE RULE 1103. Spudded a 22" hole with rat hole machine at 10:00 AM 7-28-pipe. Cemented to surface. NOTE: Notified Sylvia w/OCD-a 14-3/4" hole with rotary tools at 1:00 AM 7-30-98. TD 429'. Reached TD at 7:00 AM 7-30-98. Ran 10 joints of (433.54') of casing set at 429'. 1-Texas Pattern notched Insert float set at 385'. Cemented with 180 sacks Hallibut flocele and 2% CaCl2 (yield 1.32, weight 14.8). Tailed in Premium Plus and 2% CaCl2 (yield 1.32, weight 14.8). PD 1 to 600 psi, OK. Circulated 85 sacks. WOC. Cut off and wout at 7:30 AM 7-31-98. WOC 19 hours and 30 minutes. Red drilling. NOTE: Notified Linda w/OCD-Hobbs of cementing	98. Set 40' of 16" conductor Hobbs of spud. Resumed drilling 11-3/4" 42# H-40 8rd ST&C guide shoe set at 429'. Interpretation Premium Plus, 1/4#/sack with 200 sacks Halliburton 2:00 PM 7-30-98. Bumped plug relded on flow nipple. Drilled luced hole to 11". Resumed				
· · · · · · · · · · · · · · · · · · ·					
I hereby certify that the information above is true and complete to the best of my knowledge and belief. Operations T	'echnician A 6 1009				
SIGNATURE	DAIE				
TYPEOR PRINT NAME Rusty Klein	TELEPHONE NO. 505/748-147				
(This space for State Use) Geology	list not an ex-				
100000 100000 1000 100000 100000 100000 1000000	DATE OCT 2 0 1998				

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

Submit 3 Copies to Appropriate District Office DISTRICT I

OIL CONSERVATION DIVISION WELL APLNO

P.O. Box 1980, Hobbs, NM 88240	P.O. Box 208	18	WELL API NO.	6444			
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico		30-025-34443 5. Indicate Type of Lease				
DISTRICT III				TATE FEE X			
1000 Rio Brazos Rd., Aziec, NM 87410			6. State Oil & Gas Leaso l	4o.			
SUNDRY NOTICE	S AND REPORTS ON WEL	LS					
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVO	SALS TO DRILL OR TO DEEPEN IR. USE "APPLICATION FOR PER		7. Lease Name or Unit Ag	reement Name			
) FOR SUCH PROPOSALS.)			1			
1. Type of Well: ORL GAS WELL WELL WELL	OTHER		Runne1s	ACD			
2. Name of Operator			8. Well No.	AUI			
YATES PETROLEUM CORPORATI 3. Address of Operator	ON		2				
105 South 4th St., Artest	la, NM 88210		9. Pool name or Wildcat Townsend Mo	nrrow			
4. Well Location			Townsend In	71204			
Unit Letter J: 1650	Feet From The South	Line and2270	Feet From The	East Line			
Section 11	Township 16S Ran	35V .	items Inc				
	Township 16S Rail 10. Elevation (Show whether it		MMPM Lea	County			
	3997	' GR					
	propriate Box to Indicate N	Nature of Notice, Re	port, or Other Data				
NOTICE OF INTER	ITION TO:	SUBS	SEQUENT REPO	RT OF:			
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTER	ING CASING			
EMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS PLUG	AND ABANDONMENT			
PULL OR ALTER CASING		CASING TEST AND CE	ر				
	<u></u>	Intermed	liate casing & c	ement X			
OTHER:		OTHER: THEETMEE	Tace dading a c				
12. Describe Proposed or Completed Operations work) SEE RULE 1103. TD 4760'. Reached TD at 13 joints of 8-5/8" 42# (4199.82') (Total 4769.1 collar set at 4717'. Ce (yield 2.42, weight 11.9 CaCl2 (yield 1.32, weight Nippled up and tested to WOC 27 hours and 30 minut	6:15 PM 8-9-98. Ra H-40 8rd ST&C (569.3 8') of casing set at mented with 1300 sac 9). Tailed in with 2 at 14.8). PD 8:30 AN o 5000 psi for 30 min	an 109 joints of 36') and 96 joint 4760'. Float cks Halliburton 250 sacks Hallib 48-10-98. Bump nutes, OK. Dril	8-5/8" 42# cas ats of 8-5/8" 42 shoe set at 476 Interfill C, 1/ ourton Premium P bed plug to 2060 led out at 12:0	ing as follows: # H-40 8rd ST&C O'. Float 4#/sack flocele lus with 2% psi, OK. WOC.			
•							
	•						
I hereby certify that the information above in train and	complete to the best of my knowledge and b						
SIGNATURE 7 Usty lle	<u> </u>	Operations Te	chnician DATI	Aug. 24, 1998			
TYPEOR PRINT NAME Rusty Klein	<u>.</u>		TELE	EPHONE NO. 505/748-14			
(This space for State Use)		~	¥ . &				
	3/1/1	Sessio		OCT 2 0 1998			
APPROVED BY		8	DATE				
CONDITIONS OF APPROVAL, IP ANY:							

Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088	WELL AFI NO.
DISTRICT II P.O. Drawer DD, Ariesia, NM 88210 Santa Fe, New Mexico 87504-) S. Indicate Tune of Lease
DISTRICT III	STATE FEE X
1000 Rio Brazos Rd., Aztec, NM 87410	6. State Oil & Gas Lesse No.
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLU DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	G BACK TO A 7. Lease Name or Unit Agreement Name
1. Type of Well: OIL GAS WELL WELL X OTHER	Runnels ASP
2. Name of Operator	8. Well No.
YATES PETROLEUM CORPORATION	2
3. Address of Operator 105 South 4th St., Artesia, NM 88210	9. Pool name or Wildcat Townsend Morrow
4. Well Location	TOWNSEING MOTTOW
Unit Letter J: 1650 Feet From The South L	ine and 2270 Feet From The East Line
Section 11 Township 16S Range	35E NMPM Lea County
10. Elevation (Show whether DF, RKB, 3997' GR	RT, GR, etc.)
11. Check Appropriate Box to Indicate Nature	of Notice Percet or Other Date
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMED	DIAL WORK ALTERING CASING
TEMPORARILY ABANDON CHANGE PLANS COMM	ENCE DRILLING OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING CASING	G TEST AND CEMENT JOB
OTHER: OTHER	Perforate & frac
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give per work) SEE RULE 1103. 9-26-28-98 - Cleaned location, set and tested an	-
9-29-98 - Rigged up pulling unit. Nippled up BO and tagged PBTD at 12409'.	P. TIH with bit, scraper and tubing
9-30-98 - Pickled tubing with 500 gallons 15% HC	L acid. Tested BOP to 3500 psi. TOOH
with tubing, scraper and bit. Rigged up wirelin	e. TIH with logging tools and ran
CBL/GR/CCL log. Rigged down wireline. TIH with	
Need air cushion before shooting stim guns. TOO 10-9-98 - Rigged up wireline and lubricator. TI	
12008-12025' w/72 .41" holes (4 SPF - Atoka). T	
and lubricator. TIHwith 1.81" F nipple, 10 join	ts tailpipe, packer and tubing. Bottom
of tailpipe at 11937'. Packer at 11609'. Nippl	
packer and tree to 3000 psi, OK. Swabbed well d 10-2-98 - Rigged up treesaver. Attempted to fra	
Rigged down treesaver. Pumped 75 bbls 2% KCL wa	
I hereby certify that the information above in trus, and complete to the best of my knowledge and belief.	CONTINUED ON NEXT PAGE:
SIGNATURE JUSTIN THE OPE	rations Technician DATE Oct. 8, 1998
TYPEOR PRINT NAME Rusty Klein	TELEPHONE NO. 505/748-1471
(This space for State Use)	OCT 2 0 1998
1 1 1 2 Suits mi	Geologist OUI 20 1990
APPROVED BY	
CONDITIONS OF AFFROVAL, IF ANY:	

YATES PETROLEUM CORPORATION Runnels ASP #2 Section 11-T16S-R35E Lea County, New Mexico

SUNDRY NOTICE CONTINUED:

down tree and nippled up BOP. Released packer. Reversed 120 bbls. tubing and packer. TIH with knock out plug and tailpipe, packer and tubing. Set packer at 11609'. Tested to 1000 psi, OK. Dropped bar. Knocked out plug. Well started gassing. Tested packer to 1000 psi, OK. Swabbed. 10-3-98 - Rigged up treesaver. Attempted to frac - shut down. Rigged down treesaver. Bled well down. Pumped 70 bbls 2% KCL down tubing. Nippled down tree. Nippled up BOP. Released packer. TOOH with tubing and packer. Rigged up Bo Monk pipe testers. TIH with 1.81" F nipple, 10 joints tailpipe, Arrow-set packer and tubing. Tested tubing to 10000 psi, OK. Nippled down BOP and nippled up tree. Set packer at 11641'. Tested packer and tree to 2500 psi, OK. Swabbed well down. 10-4-98 - Rigged up treesaver. Frac'd perforations 12008-12025' (Atoka) with 39500 gallons 70Q binary foam, 3000 gallons methanol 40# CMHPG, 70 tons CO2, 450000 scf N2 and 47000# 20-40 Interprop. Rigged down treesaver. Shut well in for 2 hours. Opened well up and flowing back frac. Shut well in. 10-5-98 - Flowed back. Shut well in. 10-6-98 - Released well to production department.

Rusty Klein

Operations Technician

October 8, 1998

District I
PO Box 1994, Hobbs; NM 82241-1996
District II
PO Drawer DD, Artesia, NM 82211-0719
District III

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-104 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION

Astrici III	. D.4 . 4	N/1 07410				Box 2088	2000					5 Copies
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			the OGRID au	uber and nam	e of th	e previous oper	ator					
 	Previous	Operator Sig	gnature			Print	ed Name				itle	Date

District | PO Box 1 %30, Hobbs, NM 88241-1980 District II PO Brawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 10, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

1000 Rio Brazos R	(d., Aztec,	MW 8/410		Sa	nta Fe, l	NM 8	37504-2088			ree	Lease - 3 Copi
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District 1 PO Box 1980, Hobbs, NM 88241-1980 District II

811 South First, Artesia, NM 88210

District III 100

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State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco

Form C-101 Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office State Lease - 6 Copies

00 Rio Brazos Rd., Aztec, NM 87410 Santa Fe,							M 87505 Fee Lease - 5 C					
o, Santa Fe,	NM 87	505			•					AMENI	DED REPORT	
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Yates Petroleum Corpor 105 S. 4th Street Artesia, New Mexico 8821 ty Code 'Frequence Pool 1 Township Range Let Ida Feet from the 'Proposed Bottom Hole Locat Section Township Range Let Ida Feet from the 'Proposed Pool 1 Townsend Morrow Townsend Morrow 'Year Casing Size Casing weight/foot 'A" 11 3/4" 42# 8 5/8" 32# '/8" 5 1/2" 15.5# & 17# Proposed program. If this application is to DEEPEN or PLUG Battle blowout prevention programs, if any, Use additional sheets if the blowout prevention programs is any to a sufficient corporation proposes to drill and and stimulate as needed for produce and stimulate as needed for produce RAM: 0-450' FW Gel/Paper/LCM; 450'-9400'-11,200' Salt Gel/Starch; GRAM: BOPE will be installed on the operational. Ty that the information given above is true and complete to the best get and belief. CLIFTON R. MAY	TION FOR PERMIT TO DRILL, RE-ENTER, DEE 'Operator Name and Address. Yates Petroleum Corporation 105 S. 4th Street Artesia, New Mexico 88210 Ty Code 'Property Name Runnels "ASP" Surface Location Section Township Range Let Idn Feet from the North/South is Proposed Bottom Hole Location If Diffe Section Township Range Let Idn Feet from the North/South is 'Proposed Pool 1 Townsend Morrow Townsend Morrow Townsend Morrow Townsend Morrow 21 Proposed Casing and Cement is property in the Section of Section of Section	TION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, 'Operator Name and Address. Yates Petroleum Corporation 105 S. 4th Street Artesia, New Mexico 88210 Ty Code	TION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBA Operator Name and Address. 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Revised February 10, 1994 Instruction on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

- DISTRIČT -II P.O. Drawer DD, Artesia, NM 88210

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-340	143 86400		ol Name DRROW
Property Code 23257		perty Name LS "ASP"	Well Number 2
0GRID No. 025575	•	OLEUM CORPORATION	Elevation 3979

Surface Location

ı	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
į	J	11	16 S	35 E		1650	SOUTH	2270	EAST	LEA

Bottom Hole Location If Different From Surface

•										
UL or lot No.	Section	Township	Bange	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres	Joint o	r Infill	Consolidation	Code Or	der No.					
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320	1			i						

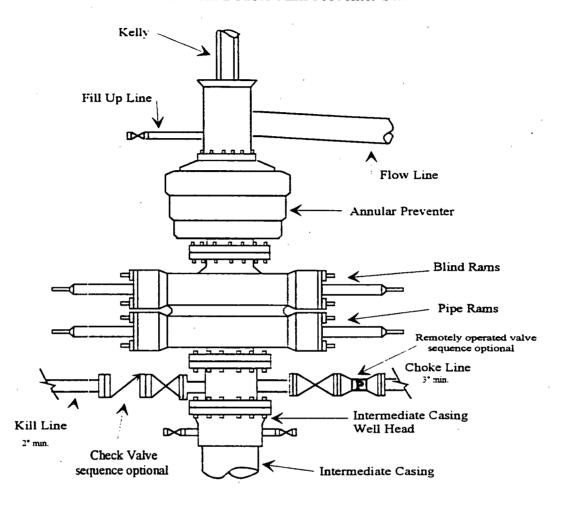
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION								
		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.						
	<u> </u>	Clifta R. May						
		Printed Name Regulatory Agent Title July 1, 1998						
		Date SURVEYOR CERTIFICATION I hereby certify that the well location shown						
	FEE	on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.						
	2270'	JUNE 29, 1998 Date Survey HELL Signature Sector Of Control of Con						
		Certificate No Horschell Jones 3640 Certificate No Horschell Jones 3640 Certificate No Horschell Jones 3640 GENERAL SURVEYING COMPANY						



Yates Petroleum Corporation

Typical 5,000 psi Pressure System
Schematic
Annular with Double Ram Preventer Stack



Typical 5,000 psi choke manifold assembly with at least these minimun features

