

Phone (303) 790-2705



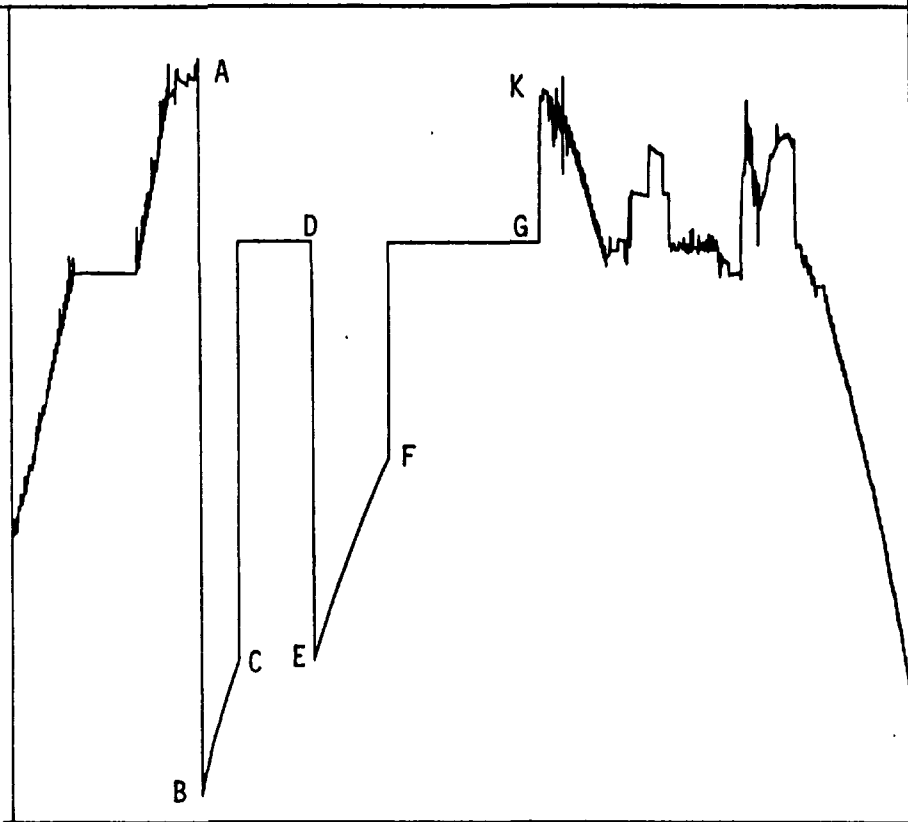
**BAKER**  
OIL TOOLS

56 Inverness Drive East  
Englewood, CO 80112

Contractor **Peterson Drlg.**  
Rig No. **2**  
Spot **1910' FNL & 2015' FEL**  
Sec **7**  
Twp **13 S**  
Rng **28 E**  
Field **Wildcat**  
County **Chaves**  
State **New Mexico**  
Elevation **3657' KB**  
Formation **Devonian**

Surface Choke **1/4"**  
Bottom Choke **3/4"**  
Hole Size **7 7/8"**  
Core Hole Size **None**  
DP Size & Wt. **4 1/2" 16.60**  
Wt. Pipe **None**  
I.D. of DC **2 1/4"**  
Length of DC **788'**  
Total Depth **7956'**  
Type Test **Conventional**  
Interval **7935'-- 7956'**

Mud Type **--**  
Weight **9.8**  
Viscosity **39**  
Water Loss **--**  
Filter Cake **--**  
Resistivity **.073 @ 60 °F**  
**77,000 Ppm. NaCl**  
B.H.T. **151.7 Max °F**  
Co. Rep. **Mitch Lee**  
Tester **Berry Fisher**  
Baker Dist. **Hobbs NM**



	REPORTED	CORRECTED	
Opened Tool @	23:37		hrs.
Flow No. 1	30	29	min.
Shut-in No. 1	60	60	min.
Flow No. 2	60	60	min.
Shut-in No. 2	120	121	min.
Flow No. 3	None	Taken	min.
Shut-in No. 3	"	"	min.

Recorder Type **STI 8000**  
No. **01190** Cap. **7500** psi  
Depth **7946** feet  
Inside **Clock**  
Outside **x** Range **hrs.**

Initial Hydrostatic	A	4114
Final Hydrostatic	K	4043
Initial Flow	B	166
Final Initial Flow	C	913
Initial Shut-in	D	3221
Second Initial Flow	E	917
Second Final Flow	F	2025
Second Shut-in	G	3219
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	

Pipe Recovery

Reverse circulated:  
6170' Oil = 80.3 bbl.

Gravity: 49.0 Deg API @ 60 Deg F

HANAGAN PETROLEUM CORP.  
TICKET #258-80202

CHARLIE STATE #1  
DEVONIAN ~ 7935' - 7956'

DST #2  
09-13-1993

07/27/00

DATE TIME	DELTA TIME HRS	DEFLECTION IN	PRESSURE PSI	COMMENTS
12:38:30	0.000	0.0000	3442.24	WELL SHUT-IN
12:39:30	0.009	0.0000	3559.81	
12:40:30	0.018	0.0000	3640.87	
12:41:30	0.027	1.0336	3156.34	
12:42:30	0.036	1.0352	3150.63	
12:43:30	0.045	1.0353	3162.46	
12:44:30	0.054	1.0362	3164.72	
12:45:30	0.063	1.0374	3167.37	
12:46:30	0.072	1.0384	3170.43	
12:47:30	0.081	1.0384	3170.43	
12:48:30	0.090	1.0384	3170.43	
12:49:30	0.099	1.0384	3170.43	
12:50:30	0.108	1.0384	3170.43	
12:51:30	0.117	1.0384	3170.43	
12:52:30	0.126	1.0384	3170.43	
12:53:30	0.135	1.0384	3170.43	
12:54:30	0.144	1.0384	3170.43	
12:55:30	0.153	1.0384	3170.43	
12:56:30	0.162	1.0384	3170.43	
12:57:30	0.171	1.0384	3170.43	
12:58:30	0.180	1.0384	3170.43	
12:59:30	0.189	1.0384	3170.43	
13:00:30	0.198	1.0384	3170.43	
13:01:30	0.207	1.0384	3170.43	
13:02:30	0.216	1.0384	3170.43	
13:03:30	0.225	1.0384	3170.43	
13:04:30	0.234	1.0384	3170.43	
13:05:30	0.243	1.0384	3170.43	
13:06:30	0.252	1.0384	3170.43	
13:07:30	0.261	1.0384	3170.43	
13:08:30	0.270	1.0384	3170.43	
13:09:30	0.279	1.0384	3170.43	
13:10:30	0.288	1.0384	3170.43	
13:11:30	0.297	1.0384	3170.43	
13:12:30	0.306	1.0384	3170.43	
13:13:30	0.315	1.0384	3170.43	
13:14:30	0.324	1.0384	3170.43	
13:15:30	0.333	1.0384	3170.43	
13:16:30	0.342	1.0384	3170.43	
13:17:30	0.351	1.0384	3170.43	
13:18:30	0.360	1.0384	3170.43	
13:19:30	0.369	1.0384	3170.43	
13:20:30	0.378	1.0384	3170.43	
13:21:30	0.387	1.0384	3170.43	
13:22:30	0.396	1.0384	3170.43	
13:23:30	0.405	1.0384	3170.43	
13:24:30	0.414	1.0384	3170.43	
13:25:30	0.423	1.0384	3170.43	
13:26:30	0.432	1.0384	3170.43	
13:27:30	0.441	1.0384	3170.43	
13:28:30	0.450	1.0384	3170.43	
13:29:30	0.459	1.0384	3170.43	
13:30:30	0.468	1.0384	3170.43	
13:31:30	0.477	1.0384	3170.43	
13:32:30	0.486	1.0384	3170.43	
13:33:30	0.495	1.0384	3170.43	
13:34:30	0.504	1.0384	3170.43	
13:35:30	0.513	1.0384	3170.43	
13:36:30	0.522	1.0384	3170.43	
13:37:30	0.531	1.0384	3170.43	
13:38:30	0.540	1.0384	3170.43	
13:39:30	0.549	1.0384	3170.43	
13:40:30	0.558	1.0384	3170.43	
13:41:30	0.567	1.0384	3170.43	
13:42:30	0.576	1.0384	3170.43	
13:43:30	0.585	1.0384	3170.43	
13:44:30	0.594	1.0384	3170.43	
13:45:30	0.603	1.0384	3170.43	
13:46:30	0.612	1.0384	3170.43	
13:47:30	0.621	1.0384	3170.43	
13:48:30	0.630	1.0384	3170.43	
13:49:30	0.639	1.0384	3170.43	
13:50:30	0.648	1.0384	3170.43	
13:51:30	0.657	1.0384	3170.43	
13:52:30	0.666	1.0384	3170.43	
13:53:30	0.675	1.0384	3170.43	
13:54:30	0.684	1.0384	3170.43	
13:55:30	0.693	1.0384	3170.43	
13:56:30	0.702	1.0384	3170.43	
13:57:30	0.711	1.0384	3170.43	
13:58:30	0.720	1.0384	3170.43	
13:59:30	0.729	1.0384	3170.43	
14:00:30	0.738	1.0384	3170.43	

ILLEGIBLE

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980  
DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719  
DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-109  
Revised 4-1-91

Instructions on  
Reverse Side

APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL

NOTE: This form is to be filed and attachments made in accordance with the provisions of Rule 509.  
If discovery is claimed for more than one zone, separate forms must be filed for each.

Operator Hanagan Petroleum Corporation		Address P.O. Box 1737	
Lease Name Charlie State		Well No. #1	County Chaves
Well Location Unit Letter <u>G</u> : <u>1910</u> Feet from The <u>North</u> Line and <u>2015</u> Feet From the <u>East</u> Line of Section <u>7</u> , Township <u>13 South</u> , Range <u>28 East</u> , NMPM			
Suggested Pool Names (List in order of preference) 1. Rattlesnake 2. Ramos 3. Antelope			
Name of Producing Formation Siluro-Devonian		Perforations OH 7931-7956	Depth of Top Perf from GL 7931'
Date of Filing Form C-104 9/27/93		Date Well was Spudded 8/20/93	
Was "Affidavit of Discovery" Previously Filed For This Well in this Pool? No		Date Compl. Ready to Prod. 9/21/93	
Total Depth 7956'	Plugged Back Depth 7956'	Depth Casing Shoe 7931'	Tubing Depth 7920'
Elevation (Gr., DF, RKB, RT, etc.) 3657 RKB			
Oil Well Potential (Test to be taken only after all load oil has been recovered) <u>332</u> Bbls, Oil Per Day Based On <u>360</u> Bbls In <u>26</u> Hours; <u>0</u> Bbls Water Per Day Based On <u>0</u> Bbls In <u>15</u> Hours; Gas Production During Test: <u>15</u> MCF: Gas-Oil Ratio <u>Method Of Flow</u> Choke Size <u>16/64"</u>			

NEAREST PRODUCTION TO THIS DISCOVERY (Includes past and present oil or gas producing areas and zones whether this discovery is based on horizontal or vertical separation):

Pool Name Wildcat	Name of Producing Formation Mississippian	Top of Pay 8164	Bottom of Pay 8174	Currently Producing? SI Gas well
Horizontal Distance and Direction from Subject Discovery Well to the Nearest well in this Pool 1.75 miles		Vertical Distance from Subject Discovery Zone to Producing Interval this Pool 233' (Different formations)		

NEAREST COMPARABLE PRODUCTION (Includes past and present oil or gas production for this pay or formation only):

Pool Name Lone Wolf, Southwest	Top of Pay 9564	Bottom of Pay 9574	Currently Producing Yes
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Comparable Pool 6.5 - 7 miles			

Is "County Deep" Discovery Allowable Requested for Subject Discovery Well? No	If Yes, Give Name, Location, and Depth of Next Deepest Oil Production in this County
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Is the Subject Well Multiple Completion? No	Is Discovery Allowable Requested for Other Zone(s)? No	If Yes, Name all Such Formations
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(Continue on reverse side)

LIST ALL OPERATORS OWNING LEASES WITHIN ONE MILE OF THIS WELL (Attach additional sheet if necessary)

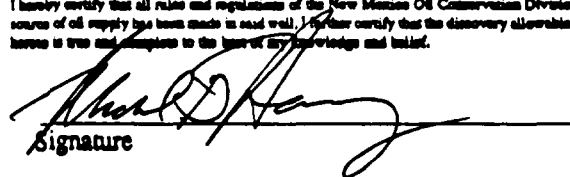
NAME	ADDRESS
Yates Petroleum Corporation	- 105 South Fourth St. - Artesia, NM 88210

Attach evidence that all of the above operators have been furnished a copy of this application. Any of said operators who intends to object to the designation of the subject well as a discovery well, eligible to receive a discovery allowable, must notify the appropriate District Office and the Santa Fe Office of the Division of such intent in writing within ten days after receiving a copy of this application..

Remarks:

### OPERATOR CERTIFICATION

I hereby certify that all rules and regulations of the New Mexico Oil Conservation Division have been complied with, with respect to the subject well, and that it is my opinion that a bona fide discovery of a hitherto unknown source of oil supply has been made in said well. I further certify that the discovery allowable for the subject well, if authorized, will be produced from the subject zone in this well only. Further, that the information given herein and attached hereto is true and complete to the best of my knowledge and belief.

  
Signature

Michael G. Hanagan  
Printed Name

Vice Pres. 9/28/93  
Title Date  
623-5053  
Telephone No.

**INSTRUCTIONS:** File two copies of Form C-109 with attachments with appropriate district office and one copy with attachments with the Santa Fe Office.

**Attachments:** (See Rule 509 for details)

- 1) Map showing all wells within a two-mile radius of discovery well.
- 2) Electrical log with tops and bottoms of producing formations marked.
- 3) A sub-surface structure map if application is based on horizontal separation.
- 4) Geological cross-section.
- 5) Summary of reservoir data.
- 6) Evidence that all operators (listed above) owning leases within one mile of this well have been furnished a copy of this application.

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

**3. Article Addressed to:**

Yates Petroleum Corporation  
105 South Fourth St.  
Artesia, NM 88210

**4a. Article Number**

P-664-430-138

**4b. Service Type**

- |   |   |
|---|---|
| <input type="checkbox"/> Registered           | <input type="checkbox"/> Insured                        |
| <input checked="" type="checkbox"/> Certified | <input type="checkbox"/> COD                            |
| <input type="checkbox"/> Express Mail         | <input type="checkbox"/> Return Receipt for Merchandise |

**7. Date of Delivery**

**5. Signature (Addressee)**

**6. Signature (Agent)**

**8. Addressee's Address (Only if requested and fee is paid)**

PS Form 3811, December 1991 ☆ U.S.G.P.O.: 1992-307-530

**DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

PS Form 3800, June 1990

Sent to	
Yates Petroleum Corporation	
Street & No.	
105 South Fourth St.	
P.O., State & ZIP Code	
Artesia, NM 88210	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date	10/14/93

**P 664 430 138**  
**Certified Mail Receipt**  
No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)