



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

Mel

Bruce King
GOVERNOR

October 23, 1981

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
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Larry Kehoe
SECRETARY

HNG Oil Company
Box 2267
Midland, TX 79702

SUBJECT: HNG Oil Company
Vaca Draw 16 St. #1-E in 16-25-33
Bell Lake 11 Fed #1-B in 11-25-33

Gentlemen:

According to your request for the creation of a new pool for the Vaca Draw 16 State Well #1 you indicate that it is an Atoka well. However, according to the C-105 submitted on this well it was perforated across formation boundaries. Correlation of this well with NMOCD nomenclature log (Pan American Petroleum Corp. Poker Lake Unit #36-P in Sec. 28, T24S, R31E, 660/S &E) indicates both perforations across formations and a difference in log tops.

Log tops are as follows:

	<u>Nomenclature Log</u> <u>Poker Lake Ut #36</u>	<u>Vaca Draw 16 St. #1</u> <u>HNG Tops</u>	<u>OCD Tops</u>
Penn	13,378		14,128
Strawn	13,585	14,333	14,333
Atoka	13,733	14,480	14,521
Morrow	14,430	14,888	15,002
Perforations		14,248---	14,757

If you concur with this, please contact me concerning what we should do about the perforations across formation boundaries.

We are required to check the tops of formations and producing intervals and we have not received a log for the Bell Lake 11 Federal Well #1-B in Sec. 11, T25S, R33E (1980/E & 660/N). Would you please send us the logs for this well.

Very truly yours,

OIL CONSERVATION DIVISION

Paul F. Kautz
Geologist

PFK/ed

COUNTY LEA FIELD Wildcat STATE NM
OPR HNG OIL CO. API 30-025-27263
NO 1 LEASE Vaca Draw "16" State MAP
Sec 16, T25S, R33E CO-ORD
1980 FNL, 660 FWL of Sec 6-3-71 NM
32 mi SE/Halfway RESPD 2-19-82 RECMP 2-26-82

CSC	WELL CLASS: INITWSX FIN WSDLSE CODE			
	FORMATION	DATUM	FORMATION	DATUM
	ID	16,075 (MSSP)	PBD	13,816

IP (Wolfcamp) Perfs 13,714-753 F 520 MCFGPD. Pot based
on 24 hr test thru (NR) chk. GOR Dry; gty (NR); CP Pkr;
TP 450

CONTR OPRSELEV 3416 GL sub-s

F.R.C. 6-19-82 OWWO
PD 13,816 WO (Wolfcamp)
(Orig. cmp 9-23-81 thru (Atoka)
Perfs 14,248-757, OTD 16,075,
OPB 14,845)
6-14-82 TD 16,075; PBD 13,816; Complete
Ret @ 13,816
Sqzd (14,248-757) 100 sx
Perf (Wolfcamp) 13,714-719, 13,746-753
Acid (13,714-753) 4500 gals
Wolfcamp Discovery, No Suggested Field Name
LOG TOPS: Rustler 1090, Delaware Sand 5013,
Cherry Canyon 6090, Bone Spring 9500, Third
Bone Spring 11,633, Wolfcamp 12,220, Strawn
14,333, Atoka 14,480, Morrow 14,880, Morrow
Clastics 15,100
6-19-82 COMPLETION ISSUED
6-3-71 NM
IC 30-025-70493-82

Petroleum Information

COUNTY **LEA** FIELD **Wildcat**
 OPR **HNG OIL CO.** STATE **NM**
 NO. **1** LEASE **Vaca Draw "15" State** API **30-025-27263**
Sec 16, T25S, R33E MAP
1980 FNL, 660 FNL of Sec CO-ORD
32 mi SE/Halfway **10-5-64 NM**

CSC
 13 3/8-560-550 sx
 9 5/8-4924-3400 sx
 7-13,253-1050 sx
 4 1/2-lnx-12,006-16,072-600
 2 7/8-12,960

WELL CLASS: INIT		FIN		LSE CODE	
FORMATION	DATUM	FORMATION	DATUM	FORMATION	DATUM
sx					
TO 16,075 (MSSP)		PBD 14,845			

IP (Atoka) Perfs 14,248-757 CAOF 2576 MCF/GPD, GOR 91,500; gty
 (Gas) .615; (Cond); 48.6; SIWHP 7962; SIBHP 10,018

CONTR **Parker #58** OPRS ELEV **3416** GL **sub-a 20**

F.R. 2-16-81
 PD 16,300 RT (Morrow)
 Drlg 560
 Drlg 4468 anhy & salt
 Drlg 9205 lm, sh & sd
 TD 13,250; Rng Logs
 Drlg 13,655
 Drlg 13,890
 Drlg 14,192 sh & lm
 Drlg 14,400 sh & lm
 Drlg 14,491
 TD 14,838; SDR
 Drlg 14,923 sh & lm
 Drlg 15,476 sh & lm
 Drlg 15,916
 TD 16,075; PBD 16,072; WOCU
 TD 16,075; PBD 16,072; MORT
 Perf (Morrow) 15,058-060, 15,208-209, 15,327,
 15,329, 15,331, 15,457-459, 15,497-502, 15,660-
 662, 15,703, 15,705, 15,708, 15,713, 15,716, 15,718
 w/1 SPI

LEA
HNG OIL CO.

Wildcat
1 Vaca Draw "16" State
Sec 16, T25S, R33E

NM
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7-6-81 Continued
Acid (15,058-718) 3500 gals
7-13-81 TD 16,075; PBD 16,072; SI
7-27-81 TD 16,075; PBD 16,072; Tstg
Perf (Morrow) 15,486-491, 15,497-502 w/1 SPF
Acid (15,058-718) 10,000 gals
8-10-81 TD 16,075; PBD 16,072; SI
9-21-81 TD 16,075; PBD 14,845; Tstg
Swbd Ld w/NS (15,058-718)
Sqzd (15,058-718)
DOC to 14,845
Perf (Atoka) 14,248-294, 14,458-590, 14,747-
757 w/13 shots (overall)

10-5-64 NM

9-21-81 Continued
Flwd @ 1700 MCFGPD thru 7/64 chk, TP 3600
(14,248-757)
Acid (14,248-757) 3500 gals
9-28-81 TD 16,075; PBD 14,845; WOPT
FARO 2100 MCFGPD in 4 hrs thru 7/64 chk,
TP 4900 (14,248-757)
10-12-81 TD 16,075; PBD 14,845; WOSP
CAOF 2576 MCFGPD (14,248-757)
10-26-81 TD 16,075; PBD 14,845; Complete
(Atoka) FOUR POINT GAUGES:
Flwd 566 MCFGPD, chk NR, 60 mins, TP 7102
Flwd 946 MCFGPD, chk NR, 60 mins, TP 6072
Flwd 1214 MCFGPD, chk NR, 60 mins, TP 5376
Flwd 1664 MCFGPD, chk NR, 60 mins, TP 4475
Atoka Discovery, No Suggested Field Name
API 221 Dec 8 14 503 10-5-64 NM