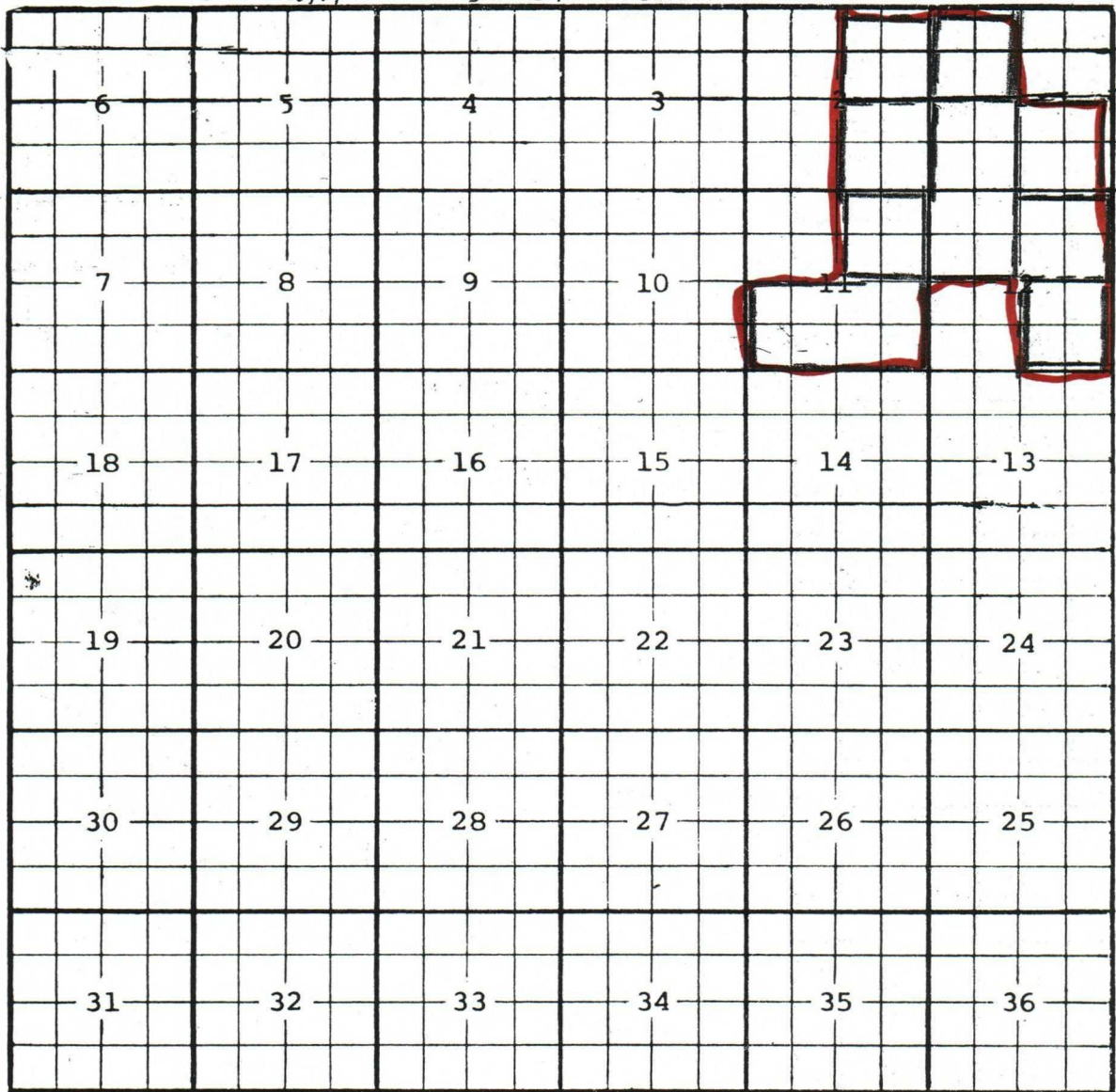


County Eddy Pool South Livingston Ridge - Delaware

TOWNSHIP 23 South Range 31 East NMPM



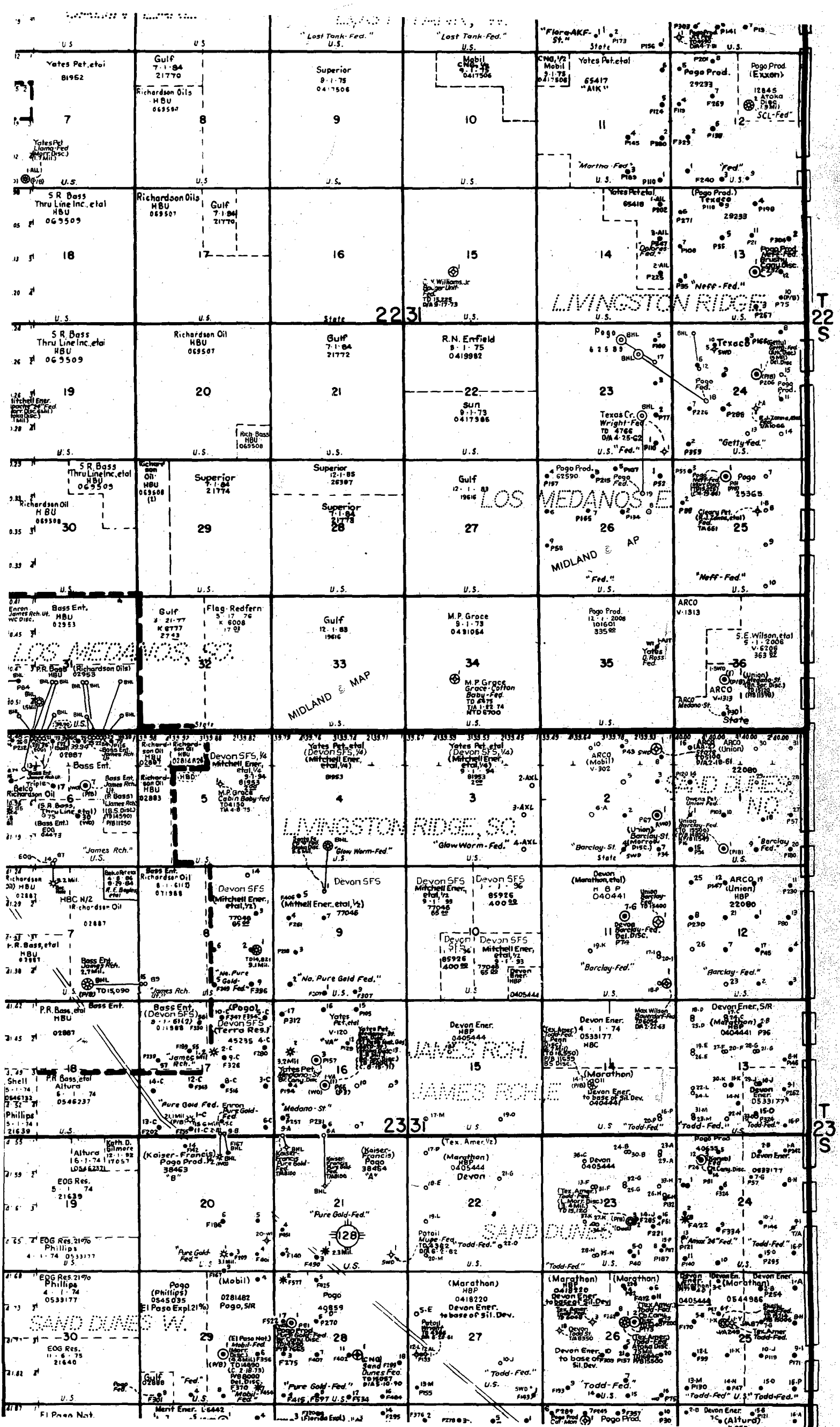
Description: NE 1/4 Sec. 11 (R-10042, 12-28-93)

Ext: SW 1/4 Sec. 1, NW 1/4 Sec. 12 (R-10324, 3-7-95) Ext: SE 1/4 Sec. 2 (R-10938, 1-9-98)

Ext: NE 1/4 Sec. 12 (R-11005, 7-24-98) Ext: NW 1/4 Sec. 1, SE 1/4 Sec. 12 (R-11013, 7-30-98)

Ext: NE 1/4 Sec. 2 (R-11067, 10-20-98) Ext: SE 1/4 Sec. 1 (R-11359, 4-12-00)

Ext: S 1/2 Sec. 11 (R-11838, 9-27-02)



CMD : ONGARD 09/21/04 11:28:02
 OGIWCM INQUIRE WELL COMPLETIONS OGOMES -TP9Y

API Well No : 30 15 29787 Eff Date : 08-01-2003 WC Status : A
 Pool Idn : 96149 LIVINGSTON RIDGE;DELAWARE, SOUTH
 OGRID Idn : 8041 FOREST OIL CORP
 Prop Idn : 32710 BARCLAY FEDERAL

Well No : 009
 GL Elevation: 3506

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

 B.H. Locn : O 1 23S 31E FTG 660 F S FTG 1980 F E P
 Lot Identifier:
 Dedicated Acre: 40.00
 Lease Type : F
 Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll
 PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
 PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD : ONGARD 09/21/04 11:28:22
 OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP9Y
 Page No: 1

OGRID Identifier : 8041 FOREST OIL CORP
 Pool Identifier : 96149 LIVINGSTON RIDGE,DELAWARE, SOUTH
 API Well No : 30 15 29787 Report Period - From : 01 2004 To : 08 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 15 29787	BARCLAY FEDERAL	01 04 31	1539 224 1781	P
30 15 29787	BARCLAY FEDERAL	02 04 29	244 1936	P
30 15 29787	BARCLAY FEDERAL	03 04 31	487 241 2348	P
30 15 29787	BARCLAY FEDERAL	04 04 30	381 225 2647	P
30 15 29787	BARCLAY FEDERAL	05 04 31	1478 202 2354	P
30 15 29787	BARCLAY FEDERAL	06 04 30	1277 293 2436	P
30 15 29787	BARCLAY FEDERAL	07 04 31	1111 217 1965	P
Reporting Period Total (Gas, Oil) :		6273	1646	15467

M0025: Enter PF keys to scroll
 PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
 PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

CMD : ONGARD 09/21/04 11:28:53
 OG6IWCMD INQUIRE WELL COMPLETIONS OGOMES -TP9Y

API Well No : 30 15 30820 Eff Date : 08-01-2003 WC Status : A
 Pool Idn : 96149 LIVINGSTON RIDGE;DELAWARE, SOUTH
 OGRID Idn : 8041 FOREST OIL CORP
 Prop Idn : 32710 BARCLAY FEDERAL

Well No : 018
 GL Elevation: 3517

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

 B.H. Locn : J 1 23S 31E FTG 1800 F S FTG 1720 F E P
 Lot Identifier:
 Dedicated Acre: 40.00
 Lease Type : F
 Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll
 PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
 PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD :
OG6IPRD

ONGARD
INQUIRE PRODUCTION BY POOL/Well

09/21/04 11:29:03

OGOMES -TP9Y

Page No: 1

OGRID Identifier : 8041 FOREST OIL CORP

Pool Identifier : 96149 LIVINGSTON RIDGE,DELAWARE, SOUTH

API Well No : 30 15 30820 Report Period - From : 01 2004 To : 08 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat		
30 15 30820	BARCLAY FEDERAL	01 04 31	1722	398	2060	P
30 15 30820	BARCLAY FEDERAL	02 04 29		433	2228	P
30 15 30820	BARCLAY FEDERAL	03 04 31	975	441	2510	P
30 15 30820	BARCLAY FEDERAL	04 04 30	1490	400	1771	P
30 15 30820	BARCLAY FEDERAL	05 04 22	947	245	1107	P
30 15 30820	BARCLAY FEDERAL	06 04 18	607	151	2987	P
30 15 30820	BARCLAY FEDERAL	07 04 25	911	290	2790	P
Reporting Period Total (Gas, Oil) :			6652	2358	15453	

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

CMD : ONGARD 09/21/04 11:28:33
OG6IWCN INQUIRE WELL COMPLETIONS OGOMES -TP9Y

API Well No : 30 15 30239 Eff Date : 08-01-2003 WC Status : A
Pool Idn : 96149 LIVINGSTON RIDGE,DELAWARE, SOUTH
OGRID Idn : 8041 FOREST OIL CORP
Prop Idn : 32710 BARCLAY FEDERAL

Well No : 010
GL Elevation: 3520

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

B.H. Locn : K 1 23S 31E FTG 1980 F S FTG 1980 F W P
Lot Identifier:
Dedicated Acre: 40.00
Lease Type : F
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD :
OG6IPRD INQUIRE PRODUCTION BY POOL/Well

09/21/04 11:28:42
OGOMES -TP9Y
Page No: 1

OGRID Identifier : 8041 FOREST OIL CORP
Pool Identifier : 96149 LIVINGSTON RIDGE,DELAWARE, SOUTH
API Well No : 30 15 30239 Report Period - From : 01 2004 To : 08 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 15 30239	BARCLAY FEDERAL	01 04 31	366 224 4661	P
30 15 30239	BARCLAY FEDERAL	02 04 29	182 3273	P
30 15 30239	BARCLAY FEDERAL	03 04 31	704 148 2957	P
30 15 30239	BARCLAY FEDERAL	04 04 30	915 125 2923	P
30 15 30239	BARCLAY FEDERAL	05 04 25	857 96 2284	P
30 15 30239	BARCLAY FEDERAL	06 04 18	393 49 2701	P
30 15 30239	BARCLAY FEDERAL	07 04 25	799 60 3407	P
Reporting Period Total (Gas, Oil) :		4034	884	22206

M0025: Enter PF keys to scroll
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

CMD : ONGARD 09/21/04 11:27:06
 OG6IWCMD INQUIRE WELL COMPLETIONS OGOMES -TP9Y

API Well No : 30 15 24954 Eff Date : 08-01-2003 WC Status : T
 Pool Idn : 96149 LIVINGSTON RIDGE;DELAWARE, SOUTH
 OGRID Idn : 8041 FOREST OIL CORP
 Prop Idn : 32710 BARCLAY FEDERAL

Well No : 001
 GL Elevation: 3495

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

 B.H. Locn : N 1 23S 31E FTG 660 F S FTG 1980 F W P
 Lot Identifier:
 Dedicated Acre: 40.00
 Lease Type : F
 Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
 PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD : ONGARD
OG6ACRE C102-DEDICATE ACREAGE

09/21/04 11:27:14
OGOMES -TP9Y
Page No : 1

API Well No : 30 15 24954 Eff Date : 03-03-1999
Pool Idn : 96149 LIVINGSTON RIDGE,DELAWARE, SOUTH
Prop Idn : 32710 BARCLAY FEDERAL
Spacing Unit : 51611 OCD Order :
Sect/Twp/Rng : 1 23S 31E Acreage : 40.00 Revised C102? (Y/N) :
Dedicated Land:

S Base U/L Sec Twp Rng Acreage L/W Ownership Lot Idn

N 1 23S 31E 40.00 N FD

E0005: Enter data to modify or PF keys to scroll
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

CMD :
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL

09/21/04 11:27:47
OGOMES -TP9Y
Page No: 1

OGRID Identifier : 8041 FOREST OIL CORP
Pool Identifier : 96149 LIVINGSTON RIDGE,DELAWARE, SOUTH
API Well No : 30 15 24954 Report Period - From : 01 1993 To : 08 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 15 24954	BARCLAY FEDERAL	08 03		T
30 15 24954	BARCLAY FEDERAL	09 03		T
30 15 24954	BARCLAY FEDERAL	10 03		T
30 15 24954	BARCLAY FEDERAL	11 03		T
30 15 24954	BARCLAY FEDERAL	12 03		T
30 15 24954	BARCLAY FEDERAL	01 04		T
30 15 24954	BARCLAY FEDERAL	02 04		T

Reporting Period Total (Gas, Oil) :

M0002: This is the first page
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

CMD : ONGARD 09/21/04 11:27:50
 OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP9Y
 Page No: 2

OGRID Identifier : 8041 FOREST OIL CORP
 Pool Identifier : 96149 LIVINGSTON RIDGE;DELAWARE, SOUTH
 API Well No : 30 15 24954 Report Period - From : 01 1993 To : 08 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water Stat	Well
30 15 24954	BARCLAY FEDERAL	03 04		T
30 15 24954	BARCLAY FEDERAL	04 04		T
30 15 24954	BARCLAY FEDERAL	05 04		T
30 15 24954	BARCLAY FEDERAL	06 04		T
30 15 24954	BARCLAY FEDERAL	07 04		T

Reporting Period Total (Gas, Oil) : -----

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
 PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

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[NMBGMR](#)



[NYMEX LS Crude](#) \$45.59
[Navajo WTXI](#) \$42.25
[Henry Hub](#) \$5.11

Updated 9/20/2004

[GENERAL](#) | [COUNTY](#) | [OPERATOR](#) | [POOL](#) | [LOCATION](#) | [OCD LOG & WELL FILES](#)

View Production Data

In Internet Explorer, right click and select "Save Target As..."
In Netscape, right click and select "Save Link As..."

Download: [HTTP](#)

Well: BARCLAY FEDERAL **No.:** 001
Operator: FOREST OIL CORP [[NM SLO data](#)]
API: 3001524954 **Township:** 23.0S **Range:** 31E
Section: 1 **Unit:** N
Land Type: F **County:** Eddy
Pools associated:

- [LIVINGSTON RIDGE;DELAWARE, SOUTH](#) **Total Acreage:** 40 **Completion:** 1
- [SAND DUNES;MORROW, NORTH \(GAS\)](#) **Total Acreage:** Unknown **Completion:** Unknown
- [Show All](#)

Year: 1989

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	0	0
May	0	0	0	0	0	0
June	0	0	0	0	0	0
July	8	9267	0	12	8	9267
August	8	26654	0	22	16	35921
September	50	16647	0	12	66	52568
October	61	42780	15	31	127	95348

November	19	35774	36	30	146	131122
December	3	28534	54	31	149	159656
Total	149	159656	105	138		

Year: 1990

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	2	19414	30	22	151	179070
February	2	20878	62	28	153	199948
March	0	21709	35	31	153	221657
April	8	16364	27	30	161	238021
May	0	9246	9	24	161	247267
June	0	12697	0	30	161	259964
July	14	13098	10	31	175	273062
August	28	13617	17	31	203	286679
September	7	13226	13	30	210	299905
October	12	10643	5	31	222	310548
November	16	12760	12	29	238	323308
December	9	11368	12	24	247	334676
Total	98	175020	232	341		

Year: 1991

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	5348	0	21	247	340024
February	0	10920	11	25	247	350944
March	2	7250	3	21	249	358194
April	5	13230	8	30	254	371424
May	8	13767	16	31	262	385191
June	1	6305	7	19	263	391496
July	0	1264	2	15	263	392760
August	0	0	0	0	263	392760
September	51	33443	17	15	314	426203
October	234	96648	45	31	548	522851
November	271	103607	39	30	819	626458
December	236	104907	90	31	1055	731365
Total	808	396689	238	269		

Year: 1992

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	219	116166	83	31	1274	847531
February	161	109825	75	29	1435	957356
March	155	101956	76	31	1590	1059312
April	110	81650	41	28	1700	1140962
May	102	87456	74	31	1802	1228418
June	120	77579	55	30	1922	1305997
July	57	33651	225	24	1979	1339648
August	34	41566	124	24	2013	1381214
September	81	56015	60	24	2094	1437229
October	72	60579	78	30	2166	1497808
November	47	49812	74	30	2213	1547620
December	39	40521	0	31	2252	1588141
Total	1197	856776	965	343		

Year: 1993

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	24	22243	34	29	2276	1610384
February	9	3008	16	10	2285	1613392
March	15	16899	66	29	2300	1630291
April	23	25253	137	29	2323	1655544
May	16	17519	190	31	2339	1673063
June	6	8907	56	29	2345	1681970
July	0	3884	4	26	2345	1685854
August	0	5904	26	27	2345	1691758
September	1	2946	4	21	2346	1694704
October	0	2130	0	20	2346	1696834
November	0	1868	0	15	2346	1698702
December	0	2163	0	15	2346	1700865
Total	94	112724	533	281		

Year: 1994

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	1731	0	11	2346	1702596
February	0	2055	1	11	2346	1704651
March	0	1500	0	9	2346	1706151
April	0	1524	0	12	2346	1707675
May	0	117	0	2	2346	1707792
June	0	50	0	1	2346	1707842

July	0	0	0	0	2346	1707842
August	0	0	0	0	2346	1707842
September	0	0	0	0	2346	1707842
October	0	0	0	0	2346	1707842
November	0	46	0	1	2346	1707888
December	0	788	6	8	2346	1708676
Total	0	7811	7	55		

Year: 1995

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	782	0	4	2346	1709458
February	0	521	0	6	2346	1709979
March	0	593	0	4	2346	1710572
April	0	408	0	4	2346	1710980
May	75	1002	9	4	2421	1711982
June	7	385	1	7	2428	1712367
July	209	315	0	11	2637	1712682
August	319	8	0	31	2956	1712690
September	151	2	0	30	3107	1712692
October	366	971	97	30	3473	1713663
November	362	1647	5	30	3835	1715310
December	366	1500	12	31	4201	1716810
Total	1855	8134	124	192		

Year: 1996

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	308	1543	20	28	4509	1718353
February	277	1443	0	29	4786	1719796
March	174	1303	1	31	4960	1721099
April	178	1059	25	30	5138	1722158
May	230	1720	8	31	5368	1723878
June	180	1055	14	31	5548	1724933
July	159	1231	10	31	5707	1726164
August	45	855	14	31	5752	1727019
September	67	1011	19	30	5819	1728030
October	52	468	35	31	5871	1728498
November	82	964	25	30	5953	1729462
December	61	1009	16	30	6014	1730471

Total 1813 13661 187 363

Year: 1997

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	29	920	11	31	6043	1731391
February	20	311	0	28	6063	1731702
March	54	632	0	31	6117	1732334
April	127	0	0	17	6244	1732334
May	0	0	0	0	6244	1732334
June	0	15493	56	15	6244	1747827
July	16	40138	24	31	6260	1787965
August	53	36920	155	31	6313	1824885
September	33	26335	145	30	6346	1851220
October	36	20044	345	31	6382	1871264
November	22	13416	472	30	6404	1884680
December	4	10899	531	31	6408	1895579
Total	394	165108	1739	306		

Year: 1998

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	6	6742	585	31	6414	1902321
February	3	6777	454	28	6417	1909098
March	7	5010	474	31	6424	1914108
April	0	2695	294	28	6424	1916803
May	0	5236	379	31	6424	1922039
June	6	5799	660	30	6430	1927838
July	0	5317	548	31	6430	1933155
August	0	4761	434	31	6430	1937916
September	0	4611	420	30	6430	1942527
October	0	5076	317	25	6430	1947603
November	0	6069	420	30	6430	1953672
December	0	4621	434	31	6430	1958293
Total	22	62714	5419	357		

Year: 1999

Pool Name: LIVINGSTON RIDGE;DELAWARE, SOUTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	0	6430	1958293
February						

	0	0	0	0	6430	1958293
March	321	492	14982	30	6751	1958785
April	626	633	15934	30	7377	1959418
May	441	581	12975	26	7818	1959999
June	315	333	12270	27	8133	1960332
July	475	600	15806	30	8608	1960932
August	532	719	17506	31	9140	1961651
September	252	282	9780	28	9392	1961933
October	303	305	11157	31	9695	1962238
November	302	319	9812	30	9997	1962557
December	237	572	7909	25	10234	1963129
Total	3804	4836	128131	288		

Pool Name: SAND DUNES;MORROW, NORTH (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	575	326	24	10234	1963704
February	0	0	0	0	10234	1963704
March	0	0	0	0	10234	1963704
April	0	0	0	0	10234	1963704
May	0	0	0	0	10234	1963704
June	0	0	0	0	10234	1963704
July	0	0	0	0	10234	1963704
August	0	0	0	0	10234	1963704
September	0	0	0	0	10234	1963704
October	0	0	0	0	10234	1963704
November	0	0	0	0	10234	1963704
December	0	0	0	0	10234	1963704
Total	0	575	326	24		

Year: 2000

Pool Name: LIVINGSTON RIDGE;DELAWARE, SOUTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	356	503	8948	28	10590	1964207
February	221	214	4935	16	10811	1964421
March	416	435	10979	31	11227	1964856
April	248	508	13020	30	11475	1965364
May	181	685	12567	31	11656	1966049
June	147	997	10801	30	11803	1967046
July	208	834	9432	31	12011	1967880
August	253	582	7831	29	12264	1968462

September	112	664	7600	30	12376	1969126
October	50	677	7005	31	12426	1969803
November	0	316	0	30	12426	1970119
December	219	255	4321	31	12645	1970374
Total	2411	6670	97439	348		

Year: 2001

Pool Name: LIVINGSTON RIDGE;DELAWARE, SOUTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	160	276	5144	31	12805	1970650
February	103	435	10968	27	12908	1971085
March	106	478	11258	29	13014	1971563
April	145	322	5944	21	13159	1971885
May	116	535	9964	25	13275	1972420
June	34	264	6824	18	13309	1972684
July	138	807	11023	29	13447	1973491
August	215	527	7624	31	13662	1974018
September	168	538	6889	29	13830	1974556
October	120	330	5886	31	13950	1974886
November	353	510	6801	30	14303	1975396
December	292	313	7322	21	14595	1975709
Total	1950	5335	95647	322		

Year: 2002

Pool Name: LIVINGSTON RIDGE;DELAWARE, SOUTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	237	509	8243	31	14832	1976218
February	160	453	5567	25	14992	1976671
March	0	0	0	0	14992	1976671
April	147	607	5094	30	15139	1977278
May	0	0	0	0	15139	1977278
June	283	363	9553	26	15422	1977641
July	148	483	10801	31	15570	1978124
August	105	453	7693	29	15675	1978577
September	165	545	6524	30	15840	1979122
October	144	409	5910	30	15984	1979531
November	0	0	0	0	15984	1979531
December	174	506	7165	31	16158	1980037
Total	1563	4328	66550	263		

Year: 2003

Pool Name: LIVINGSTON RIDGE;DELAWARE, SOUTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	0	16158	1980037
February	0	0	0	0	16158	1980037
March	0	0	0	0	16158	1980037
April	0	0	0	0	16158	1980037
May	0	0	0	0	16158	1980037
June	0	0	0	0	16158	1980037
July	0	0	0	0	16158	1980037
August	0	0	0	0	16158	1980037
September	0	0	0	0	16158	1980037
October	0	0	0	0	16158	1980037
November	0	0	0	0	16158	1980037
December	0	0	0	0	16158	1980037
Total	0	0	0	0		

Year: 2004

Pool Name: LIVINGSTON RIDGE;DELAWARE, SOUTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	0	16158	1980037
February	0	0	0	0	16158	1980037
March	0	0	0	0	16158	1980037
April	0	0	0	0	16158	1980037
May	0	0	0	0	16158	1980037
June	0	0	0	0	16158	1980037
July	0	0	0	0	16158	1980037
August	0	0	0	0	16158	1980037
September	0	0	0	0	16158	1980037
October	0	0	0	0	16158	1980037
November	0	0	0	0	16158	1980037
December	0	0	0	0	16158	1980037
Total	0	0	0	0		

Page last updated 07/22/2004. Webmaster gotech@prrc.nmt.edu

~~CONFIDENTIAL~~UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

NM-22080

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Barclay Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat - *11-1-85*11. SEC. T. R. M. OR BLOCK AND SURVEY
OR AREA

Sec 1 T-23-S R-31-E

12. COUNTY OR
PARISH

Eddy

13. STATE

N. M.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESTR. ☐

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 671 Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 660' FSL & 1980' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

N/A

DATE ISSUED

8-3-84

15. DATE SPUDDED

8-20-84

16. DATE T.D. REACHED

10-29-84

17. DATE COMPL. (Ready to prod.)

11-18-84

18. ELEVATIONS (DF, BHB, RT, GR, ETC.)*

3495.31' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

15,500'

21. PLUG, BACK T.D., MD & TVD

14,850'

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

15,500'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

14,818' - 14,832' Middle Morrow

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR BHC CNL LDT DLL MSFL

27. WAS WELL CORED

Yes

29. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FULLED
13-3/8"	48#	792'	17-1/2"	C1"C" 700 Sx	
10-3/4"	45.5#	4520'	12-1/4"	Lt WT 1750 sx	
7-5/8"	33.70#	12600'	9-1/2"	1st stg 1050 sx C1"H"	
				2nd stg 1200 sx Lt Wt	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	12219'	15388'	550		2-3/8"	14754'	14754'

31. PERFORATION RECORD (Interval, size and number)

14818' - 14832' 4 SPF 1/2" 60 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	None
	Post ID-2
	11-1-85
	Comp + BK

ACCEPTED FOR RECORD

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
11-20-84		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-20-84	24-3/4	Various	→	-	2583	0	-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
3950	pkr	→	-	2505	0	-	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

C. A. Bagley

35. LIST OF ATTACHMENTS

2 of item 26

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

J.C. Merritt

J.C. Merritt

TITLE

Dist. Prod. Supt.

DATE

11-29-84

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

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

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

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROSITY ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TENS TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	SEPAR. DEPTH	TRUE VERT. DEPTH
Wolfcamp	12150'	12173'	Porosity Zone	Lamar	4506'	(- 989')
"	12732'	12735'	"	Bone Spring	8349'	(- 4832')
Atoka	13717'	13723'	"	Wolfcamp	11649'	(-8132')
Morrow	14402'	14414'	"	Strawn	13304'	(-9787')
"	14601'	14605'	"	Atoka	13469'	(-9952')
"	14642'	14652'	"	Morrow	14026'	(-10509')
"	14818'	14833'	"			
Core attached.						

38. GEOLOGIC MARKERS:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

2. NAME OF OPERATOR
Union Oil Company of California

3. ADDRESS OF OPERATOR
P. O. Box 671 Midland, Texas 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 1980' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF ☐	☐
FRACTURE TREAT ☐	☐
SHOOT OR ACIDIZE ☐	☐
REPAIR WELL ☐	☐
PULL OR ALTER CASING ☐	☐
MULTIPLE COMPLETE ☐	☐
CHANGE ZONES ☐	☐
ABANDON* ☐	☐
(other) Set 7-5/8" csg. ☒	☒

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9-1-84 - Drlg 9-1/2" hole. Drld 9-1/2" hole to 12,445' PTD @ 2:00 PM 9-19-84. Cir 3-3/4 hrs. Ran GR CNL LDT 12,431' - 4520'. Ran GR DLL MSFL & GR BHC Sonic from 12,430' - 4520'. Drld 9-1/4" hole to 12,600' PTD 9-22-84. Cir 3-3/4 hrs. POOR LD DP. R&C 291 jts (12,578') 7-5/8" S-95 new csg @ 12,600'. W/DV tool @ 8,008' cmtd 1st stage thru shoe w/1050 sx Cl "H" cmt - cir 350 sx. Cmtd 2nd stage thru DV tool @ 8,008' w/1000 sx HOWCO LITE followed w/200 sx Cl "H". Job complete @ 3:15 AM 9-23-84. TOC 4100' by temp survey. Tested BOP & choke assy.

9-24-84 - WOC

9-25-84 - Drlg new formation.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNATURE J. R. Hughes TITLE Dist. Drlg Supt. DATE 10-23-84

ACCEPTED FOR RECORD (This space for Federal or State office use)

APPROVED BY [Signature] TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:
OCT 29 1984

Carlsbad, NEW MEXICO

*See Instructions on Reverse Side

5. LEASE
NM-22080

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Barclay Federal

9. WELL NO.
1

10. FIELD OR WILDCAT NAME

Wildcat - Mallow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 1 T-23-S Range 31-E

12. COUNTY OR PARISH 13. STATE

Eddy New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3495-31' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

RECEIVED BY

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OCT 04 1984

O. C. D.
ARTESIA OFFICE

5. LEASE
NM- 22080
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Union Oil Company of California ✓

3. ADDRESS OF OPERATOR
P. O. Box 671 Midland, Texas 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 1980' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Set intermediate casing		

7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Barclay Federal
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
Wildcat - *WILDCAT*
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 1 T-23-S Range 31-E
12. COUNTY OR PARISH
Eddy
13. STATE
New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
3495.31' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8-23-84 - Drld 12-1/4" hole to 4520' on 8-30-84. Circ and R&C 104 jts. 10-3/4" 45.5# S-80 K-55 csg @ 4520'. cmtd. w/1500 sx Lite Wt. followed w/250 sx Class "C". Circ 500 sx. Set slip, install WH, NU BOP's incomplete.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGN *J.R. Hughes* J.R. Hughes TITLE Dist. Drlg Supt. DATE 9-20-84

ACCEPTED FOR RECORD
(This space for Federal or State office use)

APPROVED BY *[Signature]* TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY
OCT 3 1984

Carlsbad

NEW MEXICO See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P.O. Box 671 Midland, Texas 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

660' FSL & 1980' FWL

AT SURFACE:

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Set Surface casing

SUBSEQUENT REPORT OF:

☐

☐

☐

☐

☐

☐

☐

☐

☐

5. LEASE

NM-22080

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

RECEIVED BY

7. UNIT AGREEMENT NAME

SEP 12 1984

8. FARM OR LEASE NAME

Barclay Federal

9. WELL NO.

1

10. FIELD OR WILDCAT NAME

Wildcat - *W. 100*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 1 T-23-S Range 31-E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

3495.3 GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8-20-84 - Set 40' of 20" cond. csg cmted w/Redi Mix conc. MIRU Parker Drlg Co. Rig 211. Spud 17-1/2" hole @ 9:00 PM 8-20-84.

8-22-84 - Drld 17-1/2" hole to 795'. R&C 18 jts 13-3/8" 48# H-40 csg @ 792' cmted w/700 sx Cl" C" cmt. Circ 200 sx. NU 13-3/8" csg @ 3000 psi Hydril, incomp.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNATURE *J. R. Hughes* TITLE Dist. Drlg. Supt. DATE 8-30-84

J. R. Hughes

ACCEPTED FOR RECORD (This space for Federal or State office use)

APPROVED BY *[Signature]* TITLE _____ DATE _____

CONDITIONS OF APPROVAL IF ANY

SEP 7 1984

Caridad, NEW MEXICO

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED BY
SUBMIT IN TR. LOCATE*
(Other instructions on
reverse side)
AUG 06 1984
O. C. D.

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985
30-015-24154

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

12. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

13. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
UNION OIL COMPANY OF CALIFORNIA

3. ADDRESS OF OPERATOR
P. O. BOX 671, MIDLAND, TEXAS 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
660' FSL AND 1980' FWL OF SECTION 1
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
28 MILES EAST OF CARLSBAD, NEW MEXICO

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any) 1980'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
-

21. ELEVATIONS (Show whether DF, ET, GR, etc.)
3495.3

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	770'	SUFFICIENT TO CIRCULATE
12-1/4"	10-3/4"	45.5#	4400'	SUFFICIENT TO CIRCULATE
9-1/2"	7-5/8"	29.7# & 33.7#	12,500'	CALCULATED TO TIE BACK
6-1/2"	5" (Liner)	18#	15,500'	300 SACKS

PRODUCING ZONE WILL BE PERFORATED AND STIMULATED AS NECESSARY.

SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA
BOP SKETCHES
SURFACE USE AND OPERATIONS PLAN

GAS IS NOT DEDICATED.

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

24. SIGNED Arthur R. Brown TITLE Agent DATE July 23, 1984
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

DATE
APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

N. MEXICO OIL CONSERVATION COMMISS
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

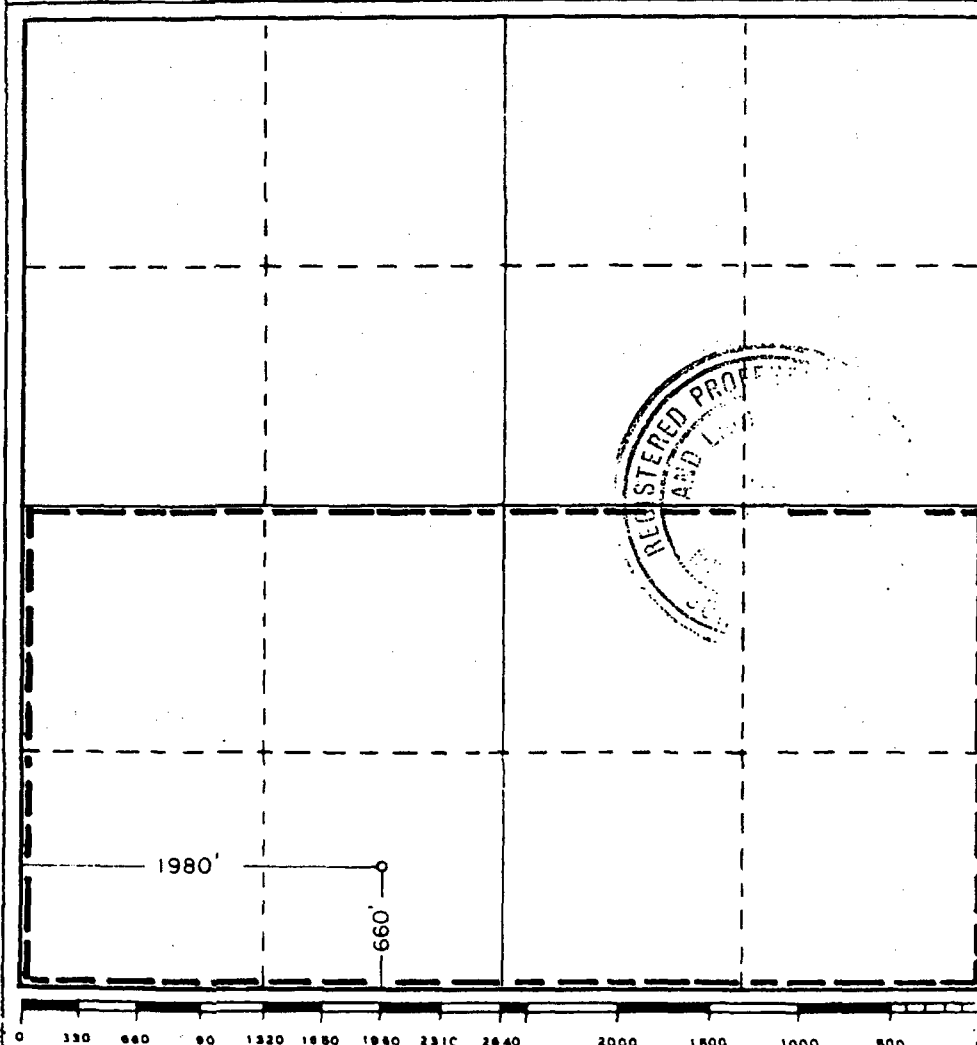
Operator UNION OIL OF CALIFORNIA			Lease BARCLAY FEDERAL		Well No. 1
Unit Letter N	Section 1	Township 23S	Range 31E	County EDDY	
Actual Footage Location of Well: 660 feet from the SOUTH line and 1980 feet from the WEST line					
Ground Level Elev. 3495.3	Producing Formation MORROW		Pool WILDCAT	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *Arthur R. Brown*
Arthur R. Brown

Position
Agent

Company
UNION OIL COMPANY OF CALIF.

Date
JULY 23, 1984

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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

7/23/84

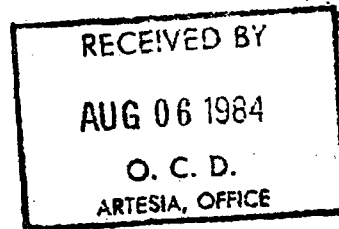
Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239

Barclay Federal

August 3, 1984

Union Oil Company of California
P.O. Box 67
Midland, TX 79702



Dear Sir:

Your application for Permit to Drill well No. 1 Barclay Federal in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, T. 23 S., R. 31 E., Eddy County, New Mexico, lease NM-22080, to a depth of 15,500 feet to test the Morrow formation in the oil-potash area, is hereby approved as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the Bureau of Land Management office checked on the attached special stipulation, in sufficient time for a representative to witness all cementing operations.

Sincerely yours,

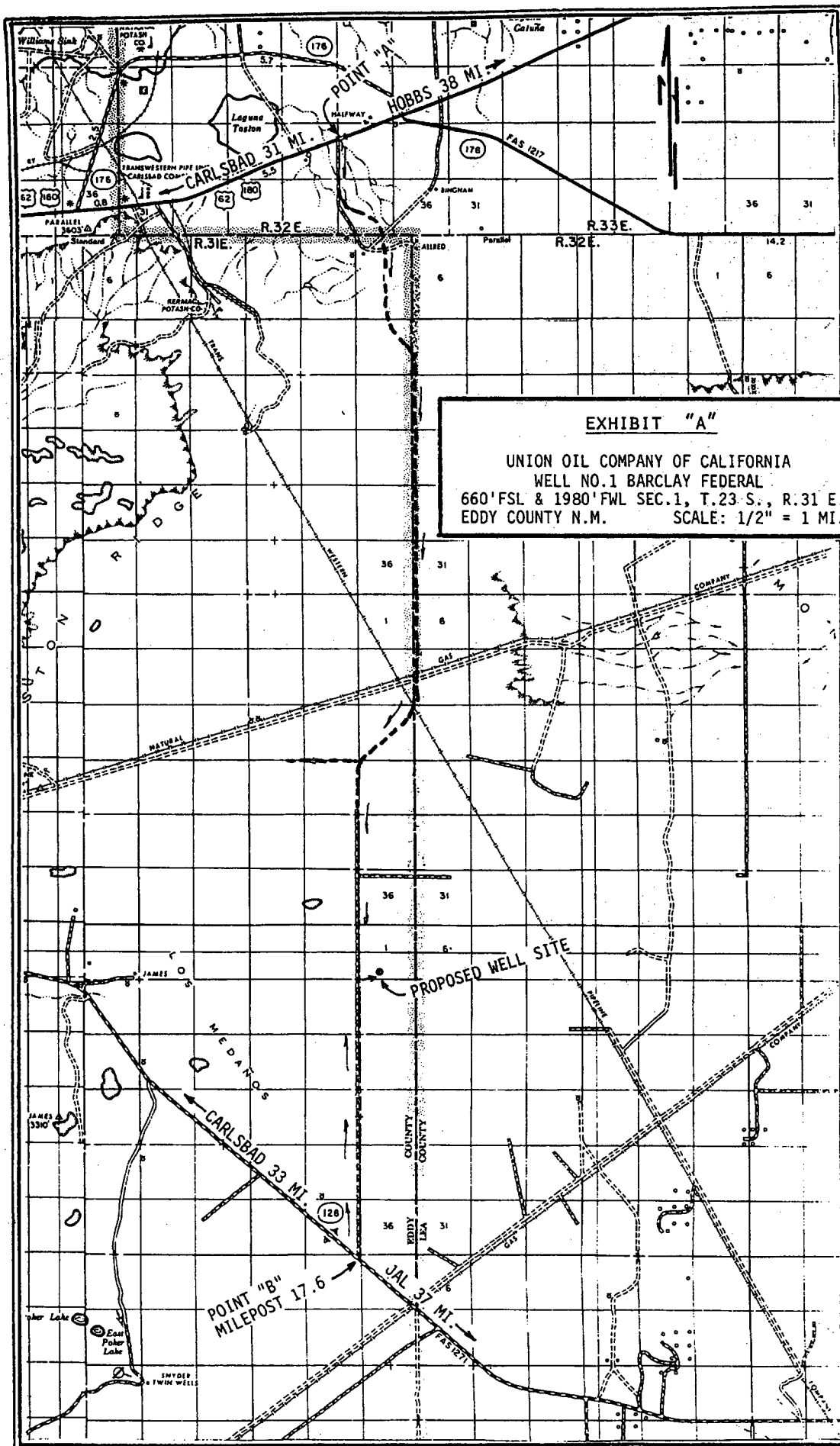
Orig. Sgd. Earl R. Cunningham

District Manager

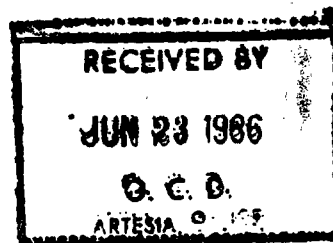
Enclosure

cc: NMOC (2)
BLM-Carlsbad
DMM-Mining (2)

GLASS/ldr/080384/0672M



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION



NOTICE OF GAS CONNECTION ✓

DATE June 19, 1986

This is to notify the ENERGY AND MINERALS DEPARTMENT that connection for the purchase of gas from the Union Oil of California, Operator, Barclay Federal #1, Lease, Well No., Eddy County, Section 1, T. 23 S., R. 31E in the Wildcat Morrow Pool to THE NEW ENERGY COMPANY, Purchaser, was made on May 7, 1986.

THE NEW ENERGY COMPANY

Purchaser

Glenda Lacey

Representative

Regulatory Analyst

Title

cc: Union Oil of California

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-104
Revised 10-01-78
Format 06-01-83
Page 1

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DISTRIBUTION	
SANTA FE	☒
FILE	☒
U.S.G.A.	☐
LAND OFFICE	
TRANSPORTER	☒
OIL	☒
GAS	☒
OPERATOR	☐
PRODUCTION OFFICE	☒

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

RECEIVED BY SANTA FE

FEB -9 1987

REQUEST FOR ALLOWABLE
AND

O. C. D.
ARTESIA, OFFICE

AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator
Union Oil Company of California

Address
P. O. Box 671 Midland, Texas 79702

Reason(s) for filing (Check proper box)

☐ New Well	Change in Transporter of:	☒ Dry Gas
☐ Recompletion	☐ Oil	☒ Condensate
☐ Change in Ownership	☐ Casinghead Gas ADD	

Other (Please explain):

If change of ownership give name
and address of previous owner:

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>Barclay Federal</u>	Well No. <u>1</u>	Pool Name, including Formation <u>Undesignated - Morrow</u>	Kind of Lease State, Federal or Fee <u>Federal</u>	Lease No. <u>NM22080</u>
Location Unit Letter <u>N</u> : <u>660</u> Feet From The <u>South</u> Line and <u>1980</u> Feet From The <u>West</u> Line of Section <u>1</u> Township <u>23-S</u> Range <u>31-E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address (Give address to which approved copy of this form is to be sent)
<u>Koch Oil Co.</u>	<u>Box 1558 Breckenridge, Tx 76024</u>
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent)
<u>Citigas Corporation</u>	<u>200 N. Loraine Midland, Tx 79701</u>
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rgs. Is gas actually connected? When
<u>N 1 23S 31E</u>	<u>Yes 5-7-86 Post ID-3</u>

If this production is commingled with that from any other lease or pool, give commingling order number:

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Tommy Hale Tommy Hale
(Signature)
District Clerical Supervisor
(Title)
January 30, 1987
(Date)

OIL CONSERVATION DIVISION

APPROVED FEB 12 1987, 19
BY Les A. Clements
TITLE Supervisor District II

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviated tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowance on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiple completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP
(Check for instruction
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	5. LEASE DESIGNATION AND SERIAL NO. NM 22080
2. NAME OF OPERATOR Chevron Oil Company of California	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 671 - Midland, Texas 79702	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface N 660' FSL & 1980' FWL of Section 1	8. NAME OF "EAST" WELLY Barclay Federal
14. PERMIT NO.	9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3495' GR	10. FIELD AND POOL, OR WILDCAT N. Sand Dunes Morrow
	11. SEC., T., R., M., OR BLK. AND SURVEY OR ARMA Sec. 1, T-23-S, R-31-E
	12. COUNTY OR PARISH Eddy
	13. STATE NM

RECEIVED

AUG 07 '89

O. C. D.
ARTESIA, OFFICE

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☐
REPAIR WELL ☐	CHANGE PLANS ☐
(Other) Return well to production	XXX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☒
(Other) ☐	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Barclay Federal Well No. 1 has been shut-in since 9-8-88 - no market for gas - gas was connected 7-19-89.

RECEIVED

AUG 10 1989

I hereby certify that the foregoing is true and correct

SIGNED Charlotte Beeson

TITLE Production Clerk

DATE 7-19-89

(This space for Federal or State Use only)

APPROVED BY (ORIG. SGD.) DAVID R. GLASS

TITLE

DATE

CONDITIONS OF APPROVAL AUG 10 1989

CARLSBAD, NEW MEXICO See Instructions on Reverse Side

SANTA FE		NEW MEXICO OIL CONSERVATION COMMISSION REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS MAY 20 1986 O. C. D. ARTESIA, OFFICE	Form C-104 Supersedes Old C-104 and C- Effective 1-1-63
FILE			
U.S.G.S.			
LAND OFFICE			
TRANSPORTER	OIL GAS		
OPERATOR			
PRODUCTION OFFICE			

Operator
Union Oil Company of California

Address
P. O. Box 671 Midland, Texas 79702

Reason(s) for filing (Check proper box)
 New Well ☒ Change in Transporter of: Oil ☐ Dry Gas ☐
 Recompletion ☐ Casinghead Gas ☐ Condensate ☐
 Change in Ownership ☐ Other (Please explain)

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Barclay Federal	Well No. Pool Name, including Formation 1 Wildcat - Morrow	Kind of Lease State, Federal or Free Federal	Lease No. NM-2208C
Location Unit Letter N : 660 Feet From The South Line and 1980 Feet From The West			
Line of Section 1 Township 23-S Range 31-E, NMPM, Eddy County			

I. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☐	Address (Give address to which approved copy of this form is to be sent)
None	
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent)
New Energy Company	200 N. Loraine Midland, Texas 79701
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
	Yes May 7, 1986

If this production is commingled with that from any other lease or pool, give commingling order number:

V. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well ☐ Gas Well ☒ New Well ☐ Workover ☐ Deepen ☐ Plug Back ☐ Same Res't. ☐ Diff. Res't. ☐
Date Spudded 8-20-84	Date Compl. Ready to Prod. 11-18-84
Elevations (DF, RKB, RT, GR, etc.) 3495' Gr	Name of Producing Formation Morrow
Perforations 14,818' - 14,832'	Total Depth 15,500'
	Top Oil/Gas Pay 14,818'
	Tubing Depth 14,754'
	Depth Casing Shoe

TUBING, CASING, AND CEMENTING RECORD			
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8"	792'	700
12-1/4"	10-3/4"	4520'	1750
9-1/2"	7-5/8"	12600'	2250
4-1/2" Liner	4-1/2" Liner	Top 12219' Btm 15388'	550

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

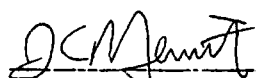
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
2583	24-3/4 Hrs	0	
Testing Methods (Pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
Back Pressure	5150	Packer	Various

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


J. C. Merritt
District Production Supt.
May 14, 1986
* 2-3/8" Tubing at 14754' Packer 14754'

OIL CONSERVATION COMMISSION

APPROVED JUN 26 1986
BY Original Signed By
Les A. Clements
TITLE Supervisor-District II

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiple completion wells.

Submit 5 Copies
Appropriate District Office
O. Box 1980, Hobbs, NM 88240

RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

STRICT II
O. Drawer DD, Artesia, NM 88210

JUN 13 '89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

STRICT III
300 Rio Brazos Rd., Aztec, NM 87410

C. D.
ARTESIA, NM

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Union Oil Company of California		Well API No. 30-015-24954
Address P. O. Box 3100 Midland, Texas 79702		
Reason(s) for Filing (Check proper box) ☐ Other (Please explain)		
New Well ☐	Change in Transporter of: Oil ☐ Dry Gas ☒	
Recompletion ☐	Casinghead Gas ☐ Condensate ☐	
Change in Operator ☐		
Change of operator give name and address of previous operator		
DESCRIPTION OF WELL AND LEASE <i>M. Sand Run, Morrow</i>		
Lease Name Barclay Federal	Well No. 1	Pool Name, including Formation Wildcat - Morrow
Kind of Lease State (Federal or Fee)		Lease No. NM 22080
Location Unit Letter N : 660 Feet From The South Line and 1980 Feet From The West Line Section 1 Township 23-S Range 31-E , NMPM , Eddy County		

I. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address (Give address to which approved copy of this form is to be sent) Koch Oil Co. Box 1558 Breckenridge, TX 76024
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent) Union Oil Company of California P. O. Box 3100 Midland, TX 79702
Well produces oil or liquids, or location of tanks	Is gas actually connected? When?
Unit N Sec. 1 Twp. 23-S Rge. 31-E	Yes 5-7-86

If this production is commingled with that from any other lease or pool, give commingling order number:

II. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Iterations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Casinghead Gas		Depth Casing Shoe						

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
			<i>Port ID-3</i>
			<i>6-16-89</i>
			<i>by FT:CGC</i>

III. TEST DATA AND REQUEST FOR ALLOWABLE

WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

IV. GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Casing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

V. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature *David S. Brady*
Printed Name **David S. Brady** Title **Regional Counsel**
Date **6/12/89** Telephone No. **(915) 684-8231**

OIL CONSERVATION DIVISION

Date Approved **JUN 13 1989**

By **ORIGINAL SIGNED BY**
MIKE WILLIAMS
Title **SUPERVISOR, DISTRICT II**

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

OIL CONSERVATION DIVISION

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210 JUL 20 '89

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

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

I. Operator Union Oil Company of California Well API No. 30-015-24954

Address: P. O. Box 671 - Midland, Texas 79702

Reason(s) for Filing (Check proper box) ☒ Other (Please explain)
New Well ☐ Change in Transporter of: Oil ☐ Dry Gas ☐ Well has been shut-in since 9-8-88 -no
Recompletion ☐ Casinghead Gas ☐ Condensate ☐ market for gas. Gas connected 7-19-89.
Change in Operator ☐
If change of operator give name _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name Barclay Federal	Well No. 1	Pool Name, including Formation N. Sand Dunes Morrow	Kind of Lease State, Federal, or Fee	Lease No. NM 22080
Location Unit Letter N : 660 Feet From The south Line and 1980 Feet From The west Line Section 1 Township 23-S Range 31-E, NMPM, Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒ Koch Oil Co.	Address (Give address to which approved copy of this form is to be sent) Box 1558 - Breckenridge, TX 76024
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒ Union Oil Company of California	Address (Give address to which approved copy of this form is to be sent) Box 3100 - Midland, TX 79702
If well produces oil or liquids, give location of tanks. Unit N Sec. L Twp. 23-S Rge. 31-E Is gas actually connected? Yes When? 7-19-89	

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations			Depth Casing Shoe					

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature Charlotte Beeson
Charlotte Beeson - Production Clerk
Printed Name Title
July 19, 1989 (915) 682-9731
Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved JUL 21 1989
By _____
Title _____

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 18 1991

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

O. C. D.
ARTESIA, OFFICE

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

NM 22080

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Union Oil Company of California ✓

3. Address and Telephone No.

P.O. Box 671, Midland TX (915) 682-9731

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL & 1980' FWL

Sec. 1, T-23-S, R-31-E

8. Well Name and No.

Barclay Federal #1

9. API Well No.

30-015-24954

10. Field and Pool, or Exploratory Area

N. Sand Dunes Morrow

11. County or Parish, State

Eddy, N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other *

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* See attached procedure.

14. I hereby certify that the foregoing is true and correct

Signed

Charlotte Beeson

Title

Drilling Clerk

Date

7-9-91

(This space for Federal or State office use)

Approved by

Conditions of approval, if any

Title

Date

7/17/91

Engineering *MLX*
Dist. Engineer *MLX*
Drilling Eng *2a1*
Dist Drlg Supt *MLX*

UNION OIL COMPANY OF CALIFORNIA
SOUTHWEST REGION
CONDITION OF HOLE & PROCEDURE

DATE: 5-31-91

FIELD: North Sand Dunes

AREA: Andrews

LSE/UNIT: Barclay Federal

WELL NO. 1

REASON FOR WORK: To determine if the recent decline in production is due to skin damage around the wellbore.

CONDITION OF HOLE:

TOTAL DEPTH: 15,500' **ETD or** **Drillers'**
PBTD: 15,180' **DATUM IS** 22' **ABOVE:** G.L.

CASING RECORD: 13-3/8", 48#, H-40 ST&C csg @ 792' cmt'd w/700 sks-circ.
10-3/4", 45.5#, S-80 & K-55 ST&C @ 4520' cmt'd w/1750
sks -circ.
7-5/8", 33.7# & 29.7#, P-110 & S-95 LT&C csg @ 12,600'
cmt'd in 2 stages w/2250 sks - DV tool @ 8008', TOC @
4100' by survey
4-1/2", 13.5#, P-110 LT&C liner from 15,388'-12,233'
TOC - cmt'd w/550 sks

PERFORATIONS: 14,818-832' (w/4 JSPF)

TUBING DETAIL: 477 jts + 3 subs (14,738') 2-3/8", 4.7#, N-80 &
P-105, AB Mod, 8rd, EUE tbq

ROD & PUMP DETAIL:

REGULATORY AGENCY REQUIREMENTS:

PROCEDURE:

1. MI RU. Install lubricator.
2. RIH w/Amerada gauge on slickline and set in x-nipple @ 14,546.7'.
3. POOH. RD MO.
4. MI RU (7 days later). Install lubricator.
5. RIH w/slickline and retrieve Amerada gauge @ 14,546.7'.
6. POOH RD MO.

ANDREWS DISTRICT ENGINEERING
KCL:ren

BARCLAY FEDERAL NO. 1
660' FSL & 1980' FWL
SEC. 1, T-23 S, R-31-E
EDDY COUNTY, NEW MEXICO

KB: 3517.3'
GL: 3495.3'

13-3/8" 48# H-40 csg @ 792'
w/1350 sx., cmt circulated

10-3/4" 45.5# S-80 & K-55 csg
@ 4520' w/1500 sx., cmt circ.

7-5/8" 33.7# & 29.7# P-110 &
S-95 @ 12,600' w/2050 sx
DV @ 8008' cmt did not circulate

5-1/2", 17#, N-80 & S-95
@ 11833' w/900 sx Class "H"
TOC @ 5250' (TS)

TUBING DETAIL
2-3/8" 4.6#, ABM P-110
set @ 14,344'

PACKER DETAIL
4-1/2" Baker pkr.
set @ 14,344'

MORROW PERFS

Current
14,400'-414' (4 SPF)

Proposed
14,402'-458' (4 SPF)

cmt plug 14,750'-784'

old
14,818'-832' (4 SPF)

DLK

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 15 1993

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM 22080

6. If Indian, Allotment or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Barclay Federal #1

9. API Well No.

30-015-24954

10. Field and Pool, or Exploratory Area

N. Sand Dunes Morrow

11. County or Parish, State

Eddy County, N. Mex.

SUNDRY NOTICES AND REPORTS ON WELLS

O. C. D.

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Union Oil Company of California

3. Address and Telephone No.

P. O. Box 671 - Midland, TX 79702

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL & 1980' FWL - Sec. 1, T-23-S, R-31-E

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Add perfs in Morrow
(Middle Morrow)
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completions on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

PROCEDURE

- ALL PROD. TREE VALVES SHOULD BE CHECKED FOR EFFECTIVE PRESSURE CONTAINMENT. THE EQUIPMENT SHOULD BE PROPERLY RATED AND CAPABLE OF HOLDING THE SHUT-IN TUBING PRESSURE. ANY DEFECTIVE EQUIPMENT SHOULD BE REPAIRED DURING THE COURSE OF THIS WORKOVER.
- SHUT WELL IN.
- RU SCHLUMBERGER PROD. LOGGING SERV. INSTALL & TEST 10,000 PSI LUBRICATOR & GREASE INJ W/ TYPE B. RIH W/GAUGE RING OR NO-GO ON SLICKLINE AND TAG PBTD TO INSURE PERF GUNS WILL GO THRU 1.875" PROFILE NIPPLE IN PKR.
- RIH & PERF MORROW W/4 JSPF USING 1-11/16" THRU-TUBING PHASED ENERJET GUNS (W/8 GR CHGS) @ THE FOLLOWING INTERVALS: 14,600'-616' (55 SHOTS), 14,633'-636' (13 SHOTS), 14,642'-652' (41 SHOTS) - TOTAL 119 SHOTS.
- POH W/WIRELINE AND RD SCHLUMBERGER.
- FLOW WELL TO PRODUCTION FACILITIES AND PERFORM POTENTIAL TEST.

14. I hereby certify that the foregoing is true and correct:

Signed David R. Glass

Title Drilling Clerk

Date 2-2-93

(This space for Federal or State office use)

(ORIG. SGD.) DAVID R. GLASS

Approved by
Conditions of approval, if any:

Title Drilling Clerk

Date 2-10-93

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

MAR 11 1993

2. Name of Operator

Union Oil Company of California

O.C.D.

3. Address and Telephone No.

P. O. Box 671-Midland, TX 79702

(915) 685-7607

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL & 1980' FWL
Sec. 1, T-23S, R-31E

5. Lease Designation and Serial No.

NM 22080

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Barclay Federal #1

9. API Well No.

30-015-24954

10. Field and Pool, or Exploratory Area

N. Sand Dunes Morrow

11. County or Parish, State

Eddy County, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

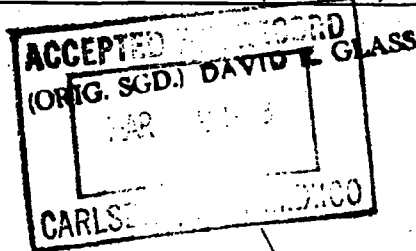
- ☐
- Abandonment
-
- ☐
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☒
- Other
- Add perfs in Middle Morrow & stimulate
-
- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- Non-Routine Fracturing
-
- ☐
- Water Shut-Off
-
- ☐
- Conversion to Injection
-
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

2/3 to 2/21/93

MIRU Expert's DDP. RU ICO scanalog, TOH scanaloging tbq, inspected 321 jts-found 5 holes f/1/32" to 1/8"-jt #244, 143 jts left in hole. R&L 2 3/8" 4.7# N-80 & P-105 UK, 8rd, EUE, AB Mod used smls tbq @ 14,344'-Baker Model E-22 pkr @ 14,344'-press tstd csq & pkr to 1000 psi-after bleeding tbq to 2000 psi, held OK. Acidized Upr. Morrow perfs f/14,400-414' down tbq w/4000 gals of Mod-101 acid/methanol & CO₂ w/additives. Perf Middle Morrow w/1 11/16" thru tbq decentralized phased Enerjet gun 4-SFF @ 14,600-14,652'. Turned down sales line @ 3:00 P.M. 2-19-93. FTP 660 psi on 16/64" choke-rate 355 MCFD. Final test (2-22-93) 285 MCF + 0 BW + 2BO on 16/64" choke-FTP 625 psi.



14. I hereby certify that the foregoing is true and correct

Signed Charlotte BeesonTitle Drilling ClerkDate 2-24-92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Form J160-5
June 1990

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS. COMMISSION
Brewer DD
Artesia, NM 88410

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

AUG 10 1993

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

UNION OIL OF CALIFORNIA

3. Address and Telephone No.

P.O. BOX 3100, MIDLAND, TX 79702 (915) 685-7600

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660 FSL & 1980 FWL

SEC. 1 T-23-S R-31-E

5. Lease Designation and Serial No.
NM-22080

6. If Indian, Allotment or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

BARCLAY FEDERAL 1

9. API Well No.

30015249540000

10. Field and Pool, or Equivalent Area

NORTH SAND DUNES

11. County or Parish, State

EDDY, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recommendation
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(For Report submit of additional information on Well
Construction or Abandonment Report and Log Form.)

13. Describe Proposed or Continuing Operations (Clearly state all pertinent details, and give pertinent data, including estimated date of starting any proposed work, if well is continuously drilled, give submission location and number and true vertical depth for all markers and points pertinent to this work.)

PRODUCED WATER HAULED TO STATE "AB" SWD

RECEIVED
MAY 11 10 53 AM '93
CART
ARTESIA

14. I hereby certify that the foregoing is true and correct

Signature Sam Sanders

Title Technician

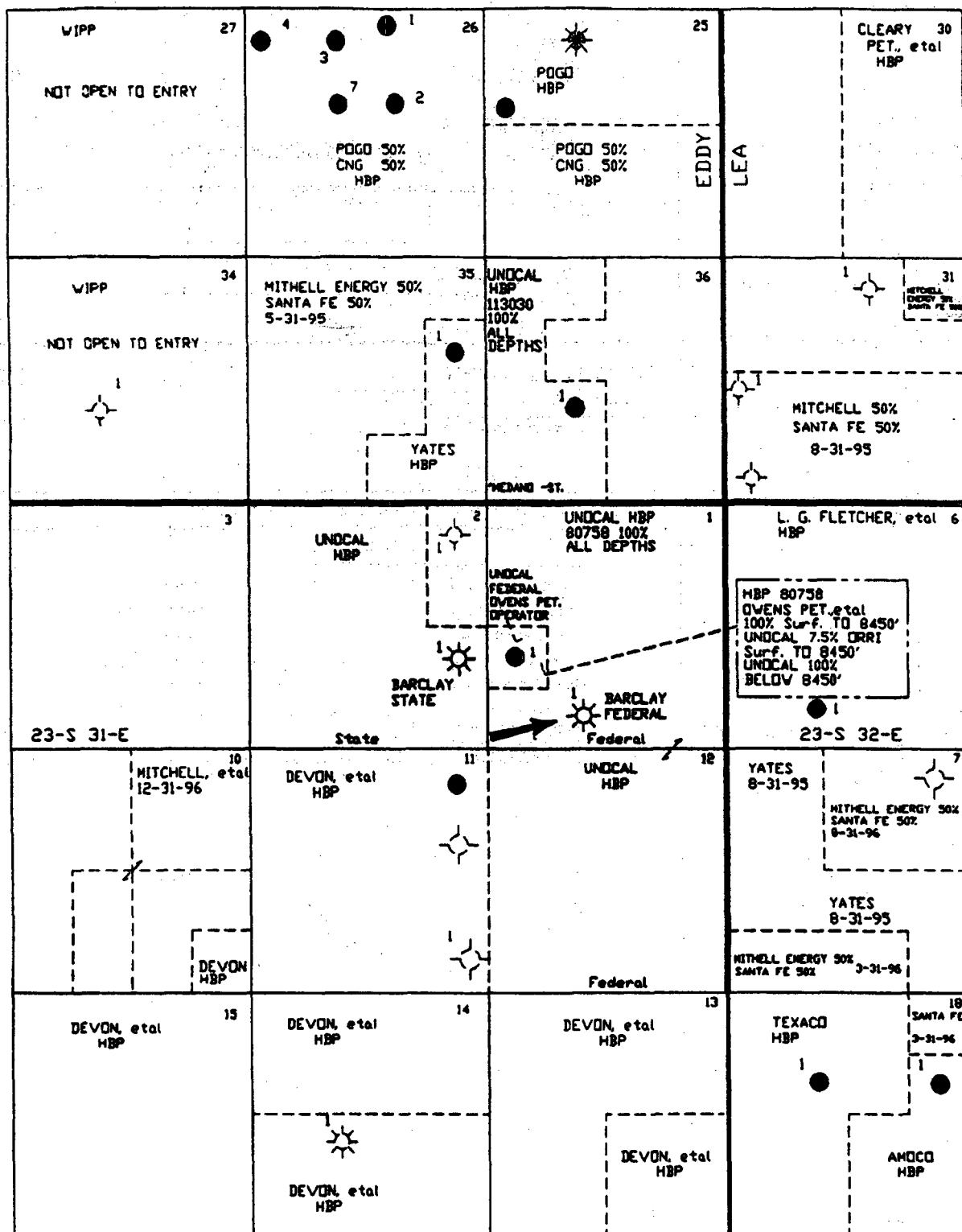
Date 4-20-93

(This space for Federal or State Office use)

Approved by _____
Conditions of approval, if any:

Title Petroleum Engineer

Date AUG 09 1993



LEGEND

- OIL
- ★ GAS
- DRYHOLE

UNOCAL

SAND DUNES, NORTH
EDDY COUNTY, NEW MEXICO

Calculation Record

UNOCAL 76

PREPARED BY

LLL

CHECKED BY

DATE

12/15/94

PAGE

OF

SUBJECT

BARCLAY FEDERAL #1

W O/A P.E. NO.

WELLBORE SCH.

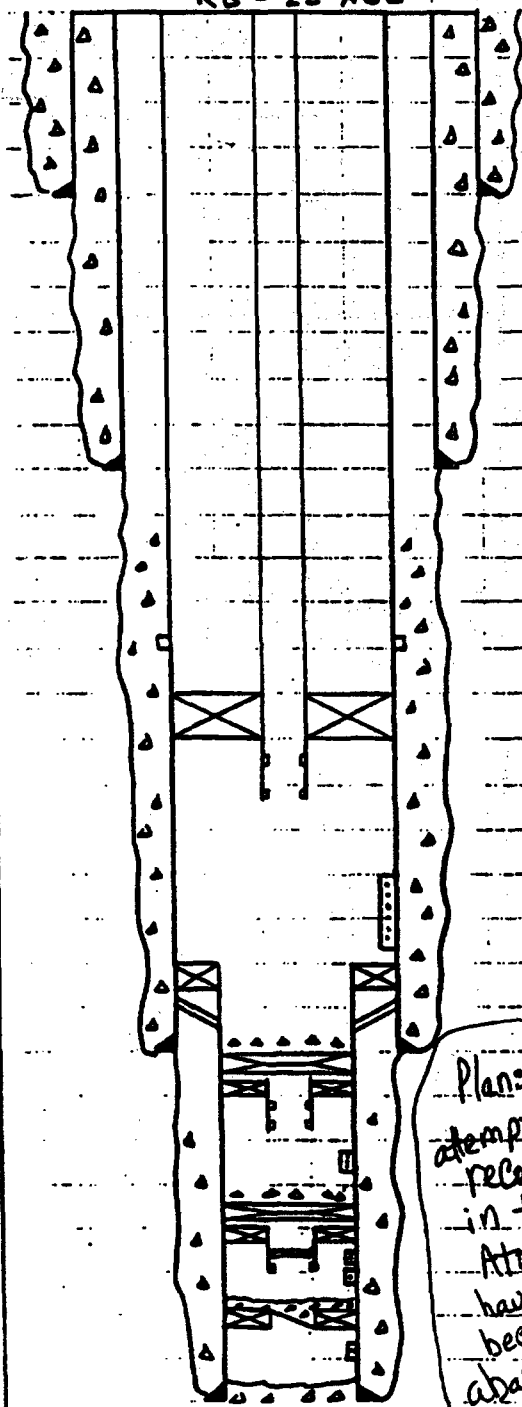
1-235-31E 660'KL 170'FWL

SAND DUNES NORTH FIELD

EDDY COUNTY, NEW MEXICO

KB = 22' AGL

PROPOSED WOLF CAMP COMPLETION



13 3/4" 48# H-40 @ 792' CMT W/ 700 SX CIRC

10 3/4" 48.5# S-90 : K.55 CSG @ 4520'
CMT W/ 1750 SX CIRC.

TBL: 2 3/4" 4.7# P105 AA MOD
2 3/4" 4.7# NPO AA MOD

7 5/8" 33.7# : 29.7# P-110 : 33.7# S-95 @ 12600'
CMT W/ 1ST STAGE 1050 SX DV TIAL @ 8003'
SECOND STAGE 1200 SX.

WOLF CAMP PERFS: 11993-96

12002-10

12026-34

12150-70

ATOKA PERFS 13716-23 485PF

13762-65 455PF

Plans to attempt recompletion in the Atoka have been abandoned

BAK MOD DB @ 14344' (2-1.87% F PERFORATIONS BELOW)

UPPER MARRON: 14400-14'

MIDDLE MARRON: 14600-52'

LOWER MARRON: 14819-32' (CMT REF @ 14744')

4 1/2" 13.5# P-110 LIVER 12219-15389

CMT W/ 550 SX. TO CMT @ TSP

TD 15500'

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.

NM 22080

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Barclay Federal #1

9. API Well No.

30-015-24954

10. Field and Pool, or Exploratory Area

N. Sand Dunes

11. County or Parish, State

Eddy County, N. Mexico

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Union Oil Company of California

3. Address and Telephone No.

P. O. Box 671 - Midland, TX 79702 (915) 685-7607

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL & 1980' FWL-----Sec. 1, T-23-S, R-31E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☒ Recompletion

☒ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROCEDURE:

- 1). PU 2 3/8" TBG & RLSE FROM BAK MOD 'DB' PKR @ 14,344'. SCANALOG TBG OUT OF HOLE.
- 2). RU WL CO.-SET 4 1/2" CIBP @ 14,300'. SPOT 30' CMT PLUG ON TOP--PRESSURE TEST PLUG TO 2000 PSI. RD WL CO. 35' SSS
- 3). PERF WOLFCAMP 11,993-96', 12,002-10', 12,026-34' & 12,150-70' (CNL-LDT DATED 9/20/84) W/4" HSC CSG GUN 4-SPF 120° PHASED.
- 4). SET PACKER AND TEST WOLFCAMP ZONE.

SCHEMATICS OF THE WELLBORE ARE ATTACHED.

14. I hereby certify that the foregoing is true and correct

Signed Charlotte Beeson

Title **DRILLING CLERK**

Date **4-26-95**

(This space for Federal or State office use)

Approved by Shannon J. Shaw

Title **REGIONAL ENGINEER**

Date **5/9/95**

Conditions of approval, if any:

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

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION
Drawer DD
Artesia, NM
FORM APPROVED
Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	5. Lease Designation and Serial No. NM 22080
2. Name of Operator Union Oil Company of California	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P. O. Box 671 - Midland, TX 79702 (915) 685-7607	7. If Unit or CA. Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FSL & 1980' FWL ---- Sec. 1, T-23-S, R-31-E	8. Well Name and No. Barclay Federal #1
	9. API Well No. 30-015-24954
	10. Field and Pool, or Exploratory Area N. Sand Dunes
	11. County or Parish, State Eddy County, N. Mexico

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
☐ Notice of Intent	☐ Abandonment
☒ Subsequent Report	☒ Recompletion Unsuccessful
☐ Final Abandonment Notice	☒ Plugging Back
	☐ Casing Repair
	☐ Altering Casing
	☐ Other
	☐ Change of Plans
	☐ New Construction
	☐ Non-Routine Fracturing
	☐ Water Shut-Off
	☐ Conversion to Injection
	☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

5-9-95-MIRU Diamond Well Service-Rel Type "E-22" anchor tbq seal assy. f/Baker "DB" pkr @ 14,344'-NU ICO Scanalog equip, RU floor-Scanalog tbq out of hole-98 jts out, inc.
5-10-95-Ran GR/CCL f/12,300'-10,300'-R&S 4 1/2" CIBP @ 14,300'-dump 45' cmt on top of CIBP-PBTD @ 14,255' (old Morrow perfs 14,400'-14,832' isolated by CIBP).
5-11-95-Perf Wolfcamp in 7 5/8" csg w/4" HSC csg guns (4 SPF) 11,993'-96', 12,002'-10', 12,026'-34', 12,150'-70' (160 shots). FL 1900' & steady.
5-12-95-R&S Baker "DB" prod pkr @ 11,780'---FHD @ 11,857.34'.
5-13-95-R&L 373 jts (11,782.96') 2 3/8" 4.7# N-80 & P-105, UNK, 8rd EUE, AB MOD, U, sml tbq. RU swab, FL @ surface, swb'd 23 BW in 3 hrs--FL f/surf-6000'-last hr swb'd 8 bbls 100% wtr.
5-17-95-Acidized Wolfcamp perfs 11,993'-12,170' dn 2 3/8" prod tbq w/6000 gals 20% HCl acid.
5-18-95-Total recovery 134.5 of 206 BLTR-RD PU-Turn over to prod dept. SWI pending evaluation.

14. I hereby certify that the foregoing is true and correct

Signed Charlotte Benson

Title Drilling Clerk

Date 6-5-95

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

575

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

*See instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

ARCO Permian

3. Address and Telephone No.

P.O. BOX 1610, MIDLAND, TX 79702 915 688-5672

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL, 1980' FEL
SEC 1, T23S, R31E

5. Lease Designation and Serial No.

NM-22080

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

BARCLAY FEDERAL #1

9. API Well No.

30-015-24954

10. Field and Pool, or exploratory Area

SAND DUNES NORTH

11. County or Parish, State

EDDY NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

THE FOLLOWING RECOMPLETION FROM THE WOLFCAMP TO THE MORROW IS PROPOSED:

1. CEMENT SQUEEZE WOLFCAMP INTERVAL 11,993'-12,170' THEN DRILL OUT & PRESSURE TEST TO 1000 PSI
2. DRILL OUT CIBP AT 14,300'.
3. SET CIBP AT 14,550' AND TOP WITH 20' CEMENT.
4. RIH WITH PACKER & WORKSTRING AND FRAC EXISTING MORROW INTERVAL 14,400'-14,414' WITH 31,500 GALS ALCO-FOAM + 25,000 LBS 20/40 INTERPROP.
5. PULL WORKSTRING AND RIH WITH PRODUCTION ASSEMBLY.

NOTE: IF MORROW IS NON-PRODUCTIVE, PLAN TO PLUGBACK WITH CIBP TOPPED WITH CEMENT, AND PERFORATE & TEST ATOKA INTERVAL 13,716'-13,724'.

14. I hereby certify that the foregoing is true and correct

Signed

Charles W. Krigger Jr.

Title

AGENT (915) 688-5672

Date

04-04-97

(This space for Federal or State office use)

Approved by

(NRI, SGD) DAVID R. GLASS

Title

Date

APR 08 1997

Conditions of approval, if any:

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well:

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

ARCO Permian

3. Address and Telephone No.

P.O. BOX 1610, MIDLAND, TX 79702 915 688-5672

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL, 1980' FSL
SEC 1, T23S, R31E

5. Lease Designation and Serial No.

NM-22080

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

BARCLAY FEDERAL #1

9. API Well No.

30-015-24954

10. Field and Pool, or exploratory Area

SAND DUNES NORTH

11. County or Parish, State

EDDY NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **CHANGE OF OPERATOR**
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

DUE TO A TRANSFER OF OWNERSHIP, PLEASE NOTE THE FOLLOWING CHANGE OF OPERATOR:

FROM: UNION OIL COMPANY OF CALIFORNIA
TO: ARCO PERMIAN

14. I hereby certify that the foregoing is true and correct.

Signed

[Signature]

Title AGENT

Date 04-08-97

(This space for Federal or State office use)

Approved by

DAVID R. GLASS

Title

Date

APR 15 1997

Conditions of approval, if any.

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

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Aramis, NM 88211-0719
District III
1000 Rio Brazos Rd., Alamogordo, NM 87419
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-103
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address ARCO Permian P. O. Box 1610 Midland, TX 79702		OGRID Number 000990
		Reason for Filing Code <i>eff. date</i> CH 5-1-97
API Number 30-015-24954	Pool Name Sand Dunes Morrow, North (Gas)	Pool Code 84700
Property Code 011442-20860	Property Name Barclay Federal	Well Number 001

II. ¹⁰ Surface Location

UT or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South Line	Feet from the	East/West line	County
N	01	23S	31E		660	south	1980	west	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
Lee Code F	Producing Method Code F	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
012835	Koch Oil Co. P. O. Box 1558 Breckenridge, TX 76024	2546010	O	
007057	Union Oil Co. of Calif. P. O. Box 3100 Midland, TX 79702	2546030	G	

IV. Produced Water

POD	POD ULSTR Location and Description
2546050	

V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations
Well Size	Casing & Tubing Size	Depth Set	Sacks Cement	
				Post ID-3
				6-16-97
				sky apr

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
Choke Size	Oil	Water	Gas	AOI	Test Method

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature

Printed name

Title

Date

Elizabeth A. Casbeer

Elizabeth A. Casbeer

Regulatory Compliance Analyst

4/15/97

Phone 915/688-5570

OIL CONSERVATION DIVISION

Approved by

SUPERVISOR, DISTRICT II

Title

Approval Date

MAY 20 1997

If this is a change of operator fill in the OGRID number and name of the previous operator

Charlotte Beeson

Previous Operator Signature

Charlotte Beeson---Regulatory Clerk---4-14-97

Printed Name

Title

Date

Union Oil Co. of Calif.---OGRID No. 023710

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 88241-1980

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

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

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-015-24954
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No. FEDERAL
7. Lease Name or Unit Agreement Name BARCLAY FEDERAL
8. Well No. 1
9. Pool name or Wildcat SAND DUNES MORROW NORTH

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.)	
1. Type of Well: OIL WELL ☐ GAS WELL ☒ OTHER ☐	
2. Name of Operator ARCO Permian	
3. Address of Operator P.O. Box 1089 Eunice, NM 88231	
4. Well Location Unit Letter N 660 Feet From The S Line and 1980 Feet From The W Line Section 01 Township 23S Range 31E NMPM EDDY County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3500' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
OTHER: ☐	PLUG AND ABANDONMENT ☐
	CASING TEST AND CEMENT JOB ☐
	OTHER: TRANSFER LOAD OIL ☒

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.

08/01/97: ROWLAND TRUCKING INC., TRANSPORTED 150.46 GROSS BBLs TOTAL FROM THE BARCLAY FEDERAL #1 TO THE FOLLOWING LEASES FOR DOWNHOLE PARAFFIN TREATMENT.

STATE B 1576 #9: UNIT M, 500' FSL & 418' FWL, SEC. 32-17S-35E, LEA COUNTY, NM (75.16 BBLs)
STATE B 1576 #10: UNIT N, 402' FSL & 1905' FWL, SEC. 32-17S-35E, LEA COUNTY, NM (75.30 BBLs)

XC: TEXACO TRADING AND TRANSPORTATION
ROWLAND TRUCKING INC.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kellie D. Murrish TITLE Administrative Assistant DATE 08/14/97
TYPE OR PRINT NAME Kellie D. Murrish TELEPHONE NO. 505-394-1649

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY TIM W. GUM DATE AUG 18 1997
DISTRICT II SUPERVISOR
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See cover in-
structions on
reverse side)FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		1997 JUL 25 A 9 40	
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☒ DIFF. REGR ☐ Other ☐			
2. NAME OF OPERATOR ARCO Permian			
3. ADDRESS AND TELEPHONE NO. P.O. Box 1610, Midland, TX 79702 915-688-5570			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 660° FSL, 1980° FEL FWL At top prod. interval reported below At total depth			
14. PERMIT NO.		DATE ISSUED 04/2	
5. LEASE DESIGNATION AND SERIAL NO. NM-22080		6. FARM OR LEASE NAME, WELL NO. BARCLAY FEDERAL 1	
7. COUNTY OR PARISH EDDY		13. STATE NM	
9. API WELL NO. 30-015-24954		10. FIELD AND POOL, OR WILDCAT SAND DUNES (NORTH)	
11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA 1. T23S, R31E			
12. ELEVATIONS (OF, RICE, RT, OR, ETC.)* 3495		15. ELEV. CASINGHEAD	
16. DATE T.D. REACHED 10-29-84		17. DATE COMPL. (Ready to prod.) 6-15-97	
18. DATE SPUDDED 8-20-84		19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 15,500		21. PLUG, BACK T.D., MD & TVD 14,530	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 14,400-14,414 (HORROW)		25. WAS DIRECTIONAL SURVEY MADE	
26. TYPE ELECTRIC AND OTHER LOGS RUN		27. WAS WELL CORED N	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13-3/8	48	792	17-1/2
10-3/4	45.5	4520	12-1/4
7-5/8	33.7	12,600	9-1/2
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
4-1/2	12,233	15,388	550
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2-3/8	14055	14056	
31. PERFORATION RECORD (Interval, size and number) 14400-14414 - 50 SPF			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
14550		CIBP-20' CEMENT ON TOP	
11993-12170		SOZ W/150 SX CEMENT	
14400-14414		FRAC W/31000 GAL: 25000 #SD	
33. PRODUCTION			
DATE FIRST PRODUCTION 6-18-97		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) FLOWING	
DATE OF TEST 7-11-97		WELL STATUS (Producing or shut-in) PRODUCING	
HOURS TESTED 24	CHOKE SIZE 21/64	PROD'N. FOR TEST PERIOD OIL - BBL. 0	GAS - MCF. 1394
WATER - BBL. 0	GAS - OIL RATIO		
FLOW. TUBING PRESS. 1100	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL GRAVITY - API (CORR.)
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD		TEST WITNESSED BY	
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <i>Elizabeth Parker</i>		TITLE REGULATORY COMPLIANCE	
		DATE 7-23-97	

* (See instructions and spaces for additional data on reverse side)

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
WOLF CAMP	12150	12173	POROSITY ZONE	LAWAR	4506	(-989')
	12732	12735		BONE SPRING	8349	(-4832')
	13717	13723		WOLF CAMP	11649	(-8132)
	14402	14414		STRAIN	13304	(-9787')
	14601	14605		ATOKA	13469	(-9952')
	14642	14652		MORRON	14026	(-10509')
	14818	14833				

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. OIL & GAS
811 S. 1st
Alamosa, N.M. 87810

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

License Designation and Serial No.

NM-22080

5. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
BARCLAY FEDERAL #1

9. API Well No.
30-015-24954

10. Field and Pool, or exploratory Area
SAND DUNES NORTH

11. County or Parish, State
EDDY NM

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
ARCO Permian

3. Address and Telephone No.
P.O. BOX 1610, MIDLAND, TX 79702 915-688-5570

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FSL, 1980' FEET FWL
SEC 1, T23S, R31E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

THE FOLLOWING RECOMPLETION PROCESS WAS COMPLETED:

1. CEMENT SQUEEZE WOLFCAMP INTERVAL 11,993'-12,170'.
2. DRILL OUT CIBP AT 14,300'
3. SET CIBP AT 14,550' AND TOP WITH 20" CEMENT.
4. RIH WITH PACKER AND WORKSTRING AND FRAC EXISTING MORROW INTERVAL 14,400'-14,414' WITH 31,000 GALS ALCO-FOAM + 25,000 LBS 20/40 INTERPROP.
5. PULL WORKSTRING AND RIH WITH PRODUCTION ASSEMBLY.

14. I hereby certify that the foregoing is true and correct

Signed

Reginald H. Carver

Title

REGULATORY COMPLIANCE

Date

7-23-97

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

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

* See instruction on Reverse Side

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1009 Elie Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address ARCO Permian P.O. Box 1089 Eunice, NM 88231		² OGRID Number 000990
		³ Reason for Filing Code RC 06/18
⁴ API Number 30-0 30-015-24954	⁵ Pool Name NORTH SAND DUNES MORROW	⁶ Pool Code 84700
⁷ Property Code 20860	⁸ Property Name BARCLAY FEDERAL	⁹ Well Number 1

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	01	23S	31E		660	S	1980	W	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Loe Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 08/09/97 (EPNG)		¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
022507	TEXACO TRADING & TRANSPORTATION P.O. Box 60628 Midland, TX 79711	2546010	0	
007057	EPNG P.O. Box 4369 Houston, TX 77210-4369	2546030	G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
2546050	

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ FBTD	²⁹ Perforations	³⁰ DHC, DC, MC
06/18/97		15500	14530	14400-14414	
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
17-1/2	13-3/8	792	circ		
12-1/4	10-3/4	4520	circ		
9-1/2	7-5/8	12600	4100 ts		
4-1/2" liner/2-3/8" tbg		12233-15388/14055			

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
06/18/97	06/18/97 ARCO	07/11/97	24	1100	
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
21/64	0	0	1394		

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Kellie D. Murrish*

Printed name:

Kellie D. Murrish

Title:

Administrative Assistant

Date: 08/26/97

Phone: 505-394-1649

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY TIM W. GUM,
DISTRICT II SUPERVISOR

Title:

Approval Date:

SEP 8 1997

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

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 88241-1980
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-015-24954
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No. FEDERAL
7. Lease Name or Unit Agreement Name BARCLAY FEDERAL
8. Well No. 1
9. Pool name or Wildcat SAND DUNES MORROW NORTH

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.)	
1. Type of Well: OIL ☐ GAS ☒ WELL ☐ OTHER	
2. Name of Operator ARCO Permian	
3. Address of Operator P.O. Box 1089 Eunice, NM 88231	
4. Well Location Unit Letter N 660 Feet From The S Line and 1980 Feet From The W Line Section 01 Township 23S Range 31E NMPM EDDY County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3500' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: **OFF LEASE MEASUREMENT** ☒

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: 15500' PBD: 14530' PERFS: 14400-14414'

ARCO Permian requests permission to conduct off lease measurement on the Barclay Federal #1. Measurement equipment is located in Unit Letter K, 1980' FSL & 1980' FWL, Section 16-23S-31E, Eddy County, NM. The gas sales are currently going to El Paso Field Services. This request has been approved by BLH under conditions that like approval is issued by the NMOC.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kellie D. Murrish TITLE Administrative Assistant DATE 09/05/97

TYPE OR PRINT NAME Kellie D. Murrish TELEPHONE NO. 505-394-1649

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

SEP 26 1997

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
ARCO Permian

3. Address and Telephone No.

P.O. Box 1089, Eunice, NM 88231

505-394-1649

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

UNIT LETTER O, 660' FSL & 1980' FEL
SEC. 1-23S-31E

5. Lease Designation and Serial No.

NM-22080

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

BARCLAY FEDERAL

1

9. API Well No.

30-015-24954

10. Field and Pool, or exploratory Area

NORTH SAND DUNES MORROW

11. County or Parish, State

EDDY

NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other OFF LEASE MEASUREMENT
☐ Change of Plant
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report inside of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD: 15500' PBD: 14530' PERFS: 14400-14414'

ARCO Permian requests permission to conduct off lease measurement on the Barclay Federal #1. Measurement equipment is located in Unit Letter K, 1980' FSL & 1980' FML, Section 16-23S-31E, Eddy County, NM. The gas sales are currently going to El Paso Field Services.

xc: El Paso Field Services, P.O. Box 4369, Houston, TX 77210-4369

14. I hereby certify that the foregoing is true and correct

Signed

Kevin H. Murrell

Title Administrative Assistant

Date

08/26/97

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

CLASS
MURKIN ENGINEER

Date

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

* See instruction on Reverse Side

EXISTING
WELLBORE SCHEMATIC

Barclay Federal No. 1

13-3/8" 48# Surface Casing
cmt'd w/ 770 sx cmt to surface
Shoe @ 792'

660' FSL & 1980' FWL
Sec. 01, T-23S, R-31-E
Eddy County, NM
API: 30-015-24954
Spudded 08/20/84
Completed 11/28/84

KB: 3517.3' GL: 3495.3'

10-3/4" 45.5# csg
cmt'd w/ 1750 sx cmt to surface
Shoe @ 4520'

**CURRENT MORROW
COMPLETION**

7-5/8" 33.7# csg. Set @ 12,600'
w/2250 sx cmt. Top of cmt @ 4100' by TS

Liner top @ 12,233'

2-3/8" tbg and Arrow Pkr @ 14,344'

Perfs 14,400'-414' (56 holes)

CIBP w/20'cmt @ 14,550'

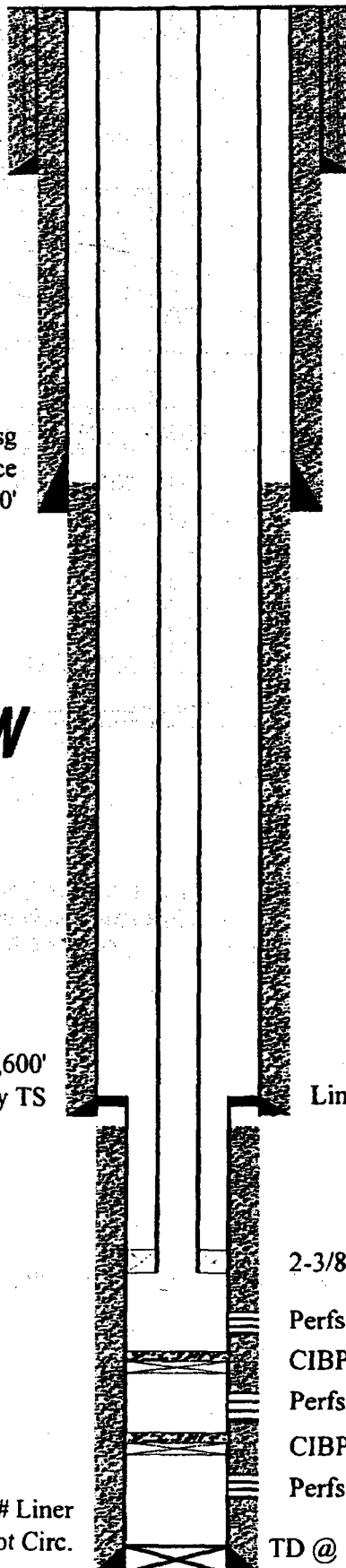
Perfs 14,600'-636' (119 holes)

CIBP w/25'cmt @ 14,784'

Perfs 14,818'-832' (56 holes)

4-1/2" 13.5# Liner
Set @ 15,388' w/550 sx cmt. Not Circ.

TD @ 15,500' PBTD @ 14,255'



PROPOSED
WELLBORE SCHEMATIC

Barclay Federal No. 1

13-3/8" 48# Surface Casing
cmt'd w/ 770 sx cmt to surface
Shoe @ 792'

660' FSL & 1980' FWL
Sec. 01, T-23S, R-31-E
Eddy County, NM
API: 30-015-24954
Spudded 08/20/84
Completed 11/28/84

KB: 3517.3' GL: 3495.3'

10-3/4" 45.5# csg
cmt'd w/ 1750 sx cmt to surface
Shoe @ 4520'

**PROPOSED
DELAWARE
COMPLETION**

Perfs 6,854, 58', 60', 62', 66'
6960', 63', 68', 73'

7071', 73', 75', 77' (13 holes)

Perfs 6480', 81', 82', 88', 90', 92'
6500', 05', 06', 07', 08' (11 holes)

Perfs 6172'-88' (9 holes)
6302'-06' (6 holes)

200' cmt plug from 11649-11449'

200' cmt plug from 12333-12133'

7-5/8" 33.7# csg. Set @ 12,600'
w/2250 sx cmt. Top of cmt @ 4100' by TS

Liner top @ 12,233'

4-1/2" 13.5# Liner
Set @ 15,388' w/550 sx cmt. Not Circ.

50' within 50' of perf
CIBP w/35'cmt @ 14,375'

Perfs 14,400'-414' (56 holes)

CIBP w/20'cmt @ 14,550' w/ 30' cmt

Perfs 14,600'-636' (119 holes)

CIBP w/25'cmt @ 14,784'

Perfs 14,818'-832' (56 holes)

TD @ 15,500' PBD @ 14,255'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
ARCO Permian

3a. Address
P.O. BOX 1610, MIDLAND, TX 79702

3b. Phone No. (include area code)
915-688-5570

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FSL, 1980' FWL
SEC 1, T23S, R31E

5. Lease Serial No.

NM-22080

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.

BARCLAY FEDERAL #1

9. API Well No.

30-015-24954

10. Field and Pool, or Exploratory Area

LIVINGSTON RIDGE (DEL)

11. County or Parish, State

EDDY NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
☒ Notice of Intent	☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair ☐ New Construction ☒ Recomplete ☐ Other
	☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon
	☐ Convert to Injection ☒ Plug Back ☐ Water Disposal

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximated duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

FOLLOWING IS THE RECOMPLETION PROCESS-PLUGBACK FROM THE SAND DUNES MORROW NORTH- TO THE LIVINGSTON RIDGE (DEL) FIELD

- REL PKR AND PU 2-3/8" TBG.
- DUMP ADDITIONAL 30' CMT ON EXISTING CIBP @ 14550.
- SET CIBP AT 14,375' W/50' CMT ON TOP.
- RIH W/WORKSTRING AND SPOT 200' CMT FROM 12333-12133' AND SPOT 200' CMT FROM 11649-11449'.
- ADD AND TREAT DELAWARE PERFS FROM 7071-7077, 6960-6973', 6854-6866', 6500-6508', 6480-6492', 6302-6303', AND 6172-6188'.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

LAURIE CHERRY

915-688-5532

Title

REGULATORY COMPLIANCE

Date 2/11/99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

FEB 23 1999

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

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

DISTRICT II
P.O. Drawer 80, Artesia, NM 88211-0719

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

DISTRICT IV
P.O. Box 2088, Santa Fe, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
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

API Number 30-015-24954	Pool Code 96149	Pool Name LIVINGSTON RIDGE (DEL)
Property Code 20860	Property Name BARCLAY FEDERAL	Well Number 1
OGRID No. 000990	Operator Name ARCO PERMIAN	Elevation 3495

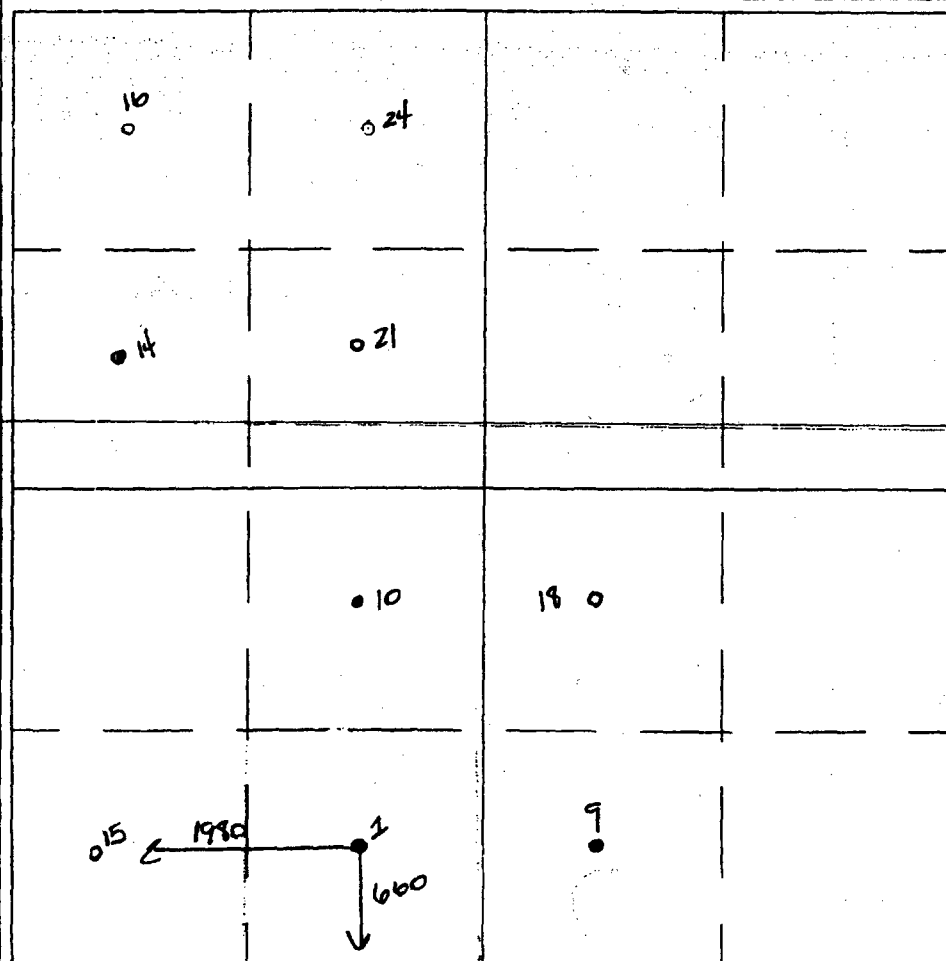
Surface Location

UL or lot No. N	Section 1	Township 23 S	Range 31 E	Lot 1dn	Feet from the 660	North/South line SOUTH	Feet from the 1980	East/West line WEST	County EDDY
---------------------------	---------------------	-------------------------	----------------------	---------	-----------------------------	----------------------------------	------------------------------	-------------------------------	-----------------------

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40									
Joint or Infill									
Consolidation Code									
Order No.									

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 that the information contained herein is true and complete to the best of my knowledge and belief. Laurie Cherry Signature LAURIE CHERRY Printed Name REG / COMP ASST. Title 3/23/99 Date	
SURVEYOR CERTIFICATION 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 supervision, and that the same is true and correct to the best of my belief. JULY 21, 1998 Date Surveyed DMCC Signature and Seal of Professional Surveyor RONALD E. REASON 7-23-98 78-11-1048 Certificate No. RONALD E. REASON 3239 GARY E. BLOOM 12641 WAGNER E. DONALD 12185					

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. C. O. s Division
811 S. 1st St
Artesia, NM 87003

FORM APPROVED
Budget Bureau No. 1004-0135
Expires July 31, 1996
Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

ARCO Permian

3a. Address

P.O. BOX 1610, MIDLAND, TX 79702

3b. Phone No. (include area code)

915-688-5570

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL, 1980' FWL
SEC 1, T23S, R31E

NM-22080

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.

BARCLAY FEDERAL #1

9. API Well No.

30-015-24954

10. Field and Pool, or Exploratory Area

LIVINGSTON RIDGE (DEL)

11. County or Parish, State

EDDY NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deeper | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☒ Recomplete | ☐ Other |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Convert to Injection | ☒ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

FOLLOWING IS THE FINAL RECOMPLETION PROCESS-PLUGBACK FROM THE SAND DUNES MORROW NORTH TO THE LIVINGSTON RIDGE (DEL) FIELD

2-17-99 RU Service Unit. Kill tubing prs. ND WH. WUBOPE. Prs. tst tbg/csg annulus 1800 psi 10 min ok, load t
2-18-99 Unable to pmp into form at 4000 psi pmp press. WO Baker Atlas "wedge" wireline. RU free point tool
14314' pkr is @ 14344'. Rec'd verbal app. from BLM to cut off tbg above pkr and cmt cap above pkr 100'.
2-19-99 Pmp 150' cmt plug atop pkr plug @14097-13947'. Ld 66 jt excess tbg. Pmp 100' cmt plug across liner to
11649-11549'. Pull and ld 231 jt 2-3/8" tbg.
2-22-99 RU Baker WL, run cbl 7-5/8" csg 8400-5000'. Perf Delaware 7077-6854' 13 holes
2-23-99 Acid w/1000 gal 15%, frac w/105000 #sd, perf 1 spf 6508-6480'.
2-23-99 Acid w/1000 gal 15%, frac w/29000 gal gel, 68500 #sd.
2-24-99 perf 6172-6188' w/9 holes, 6302-6306' w/6 holes. Acid w/1000 gal 15%, 25100 gal
gelled fw, 62000 #sd.
3-2-99 RIH w/prod. 2-7/8 tbg @6547'.
3-10-99 Test 16 BO, 681 BW, 19 MCF.

ACCEPTED FOR RECORD

MAR 24 1999

BLM

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

LAURIE CHERRY

Title

REGULATORY COMPLIANCE

Date 3/18/99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address ARCO Permian P.O. Box 1089 Eunice, NM 88231		² OGRID Number 000990
		³ Reason for Filing Code Add Gas POD 03/99
⁴ API Number 30-0 30-015-24954	⁵ Pool Name S. Livingston Ridge Delaware	⁶ Pool Code 96149
⁷ Property Code 020860	⁸ Property Name Barclay Federal	⁹ Well Number 1

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	01	23S	31E						

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F									
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
009171	GPM Gas Corporation 4001 Penbrook Odessa, TX 79762	20-23-31E 20002510	G	Satellite Meter #711212 N-01-23S-31E

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PETD	²⁹ Perforations	³⁰ DHC, DC, MC
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Backs Cement		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Kellie D. Murrish*

Printed name:

Kellie D. Murrish

Title:

Administrative Assistant

Date: 03/11/99

Phone: 505-394-1649

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

District I
PC Box 1960, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 19
Instructions on ba
Submit to Appropriate District O
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address ARCO PERMIAN P.O. BOX 1610 MIDLAND, TX. 79702		² OGRID Number 000990
		³ Reason for Filing Code RC
⁴ API Number 30-0 015-24954	⁵ Pool Name LIVINGSTON RIDGE (DEL) South	⁶ Pool Code 96149
⁷ Property Code 20960	⁸ Property Name BARCLAY FEDERAL	⁹ Well Number 1

II. Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	1	23S	31E		660	SOUTH	1980	WEST	EDDY

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 3-3-99	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
022628	TEXAS NEW MEXICO PIPELINE P. O. BOX 2528 HOBBS, NEW MEXICO 88240	2819748	0	SAME
009171	GPM GAS CORP. 4001 PEMBROOK ODESSA, TEXAS 79762	2820256	G	SAME

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations	³⁰ DHC, DC, MC
	3-3-99	15500	11549	6172-7077'	
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
17-1/2	13-3/8	792	SURF		
12-1/4	10-3/4	4520	SURF		
9-1/2	7-5/8	12600	4100' TS		
	2-7/8	6547			

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
3/3/99	3/3/99	3/10/99	24		
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
	16	681	19		

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Laurie Cherry*
Printed name: LAURIE CHERRY

OIL CONSERVATION DIVISION
Approved by: ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

Title:
Approval Date: 3-25-99

Date: 3/18/99 Phone: 915 688 5532

⁴⁷ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

N.M. Oil Conservation Division
Form No. 1004-0137Working on the other side
February 28, 1995
5. LEASE DESIGNATION AND SERIAL NO.

Artesia, NM 88210-2834

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☒ DIFF. RESVR. ☐ Other _____				7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR ARCO Permian				8. FARM OR LEASE NAME, WELL NO. BARCLAY FEDERAL 1	
3. ADDRESS AND TELEPHONE NO. P.O. Box 1610, Midland, TX 79702 915-688-5570				9. API WELL NO. 30-015-24954	
4. LOCATION OF WELL: (Report location clearly and in accordance with any State requirements)* At surface 660' FSL & 1980' FWL At top prod. interval reported below At total depth				10. FIELD AND POOL, OR WILDCAT LIVINGSTON RIDGE (DEL)	
14. PERMIT NO.				DATE ISSUED	
15. DATE SPUDDED				16. DATE T.D. REACHED	
17. DATE COMPL. (Ready to prod.) 3-2-99				18. ELEVATIONS (OF, RKB, RT, GR, ETC.)* 3495' GR	
19. ELEV. CASINGHEAD				20. TOTAL DEPTH MD & TVD 15,500	
21. PLUG, BACK T.D., MD & TVD 11,449				22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY →				ROTARY TOOLS X	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 6,172 - 7,707 (DELAWARE)				25. WAS DIRECTIONAL SURVEY MADE	
26. TYPE ELECTRIC AND OTHER LOGS RUN				27. WAS WELL CORED N	

28. CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	792	17-1/2	CIRC	NA
10-3/4	45.5	4520	12-1/4	CIRC	NA
7-5/8	33.7	12,600	9-1/2	4100 TS	NA

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2	12,233	15,388	550		2-7/8	6,547	

31. PERFORATION RECORD (Interval, size and number)		32. ACID SHOT, FRACTURE CEMENT SQUEEZE, ETC.	
7,707 - 6,854 (13 SPF)	# 32 (acid) 6306-6302 6155-6172 Acid w/1000 Frac w/25000 62000-62500	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6,508 - 6,480 (1 SPF)		14,244	PKR PLUG 14097-13947w/150' CMT
6,306 - 6,302 (6 SPF)		12,233	RMP'D 100' CMT PLUG @ 11649-11549
6,188 - 6,172 (9 SPF)		7,707-6,854	ACID w/1000, FRAC w/105000# SD
		6,508 - 6,480	ACID w/1000, FRAC w/290000# 1668500# SD

33. PRODUCTION		DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) PUMPING		WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 3-10-99	HOURS TESTED 24	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL - BBL. 16	GAS - MCF. 19	WATER - BBL. 681	GAS - OIL RATIO 35.6
FLOW - TUBING PRESS.	CASING PRESSURE 180	CALCULATED 24-HOUR RATE →	OIL - BBL.	GAS - MCF.	ACCEPTED FOR RECORD FEB 7 2001 LD		
14. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD							
35. LIST OF ATTACHMENTS							

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *Elizabeth L. Carter*

TITLE REGULATORY COMPLIANCE ANALYST

DATE 1-29-01

*(See Instructions and Spaces for Additional Data on Reverse Side)

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
WOLF CAMP	12150	12173	POROSITY ZONE	LAVAR	4506	(-989')
"	12732	12735	"	BONE SPRING	8349	(-4832')
ATOKA	13717	13723	"	WOLF CAMP	11649	(-8132)
MORROW	14402	14414	"	STRAWN	13304	(-9787')
MORROW	14601	14605	"	ATOKA	13469	(-9952')
"	14642	14652	"	MORROW	14026	(-10509')
"	14818	14833	"			
DELAWARE	4530					

JAN 20 1991

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A
March 19, 2001

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy of the final affected wells
list along with 1 copy of this form per
number of wells on that list to appropriate
District Office

Change of Operator

Previous Operator Information:

OGRID: 000900
Name: ARCO Permian
Address: P.O. Box 3092
Address: _____
City, State, Zip: Houston, Texas 77253

New Operator Information:

Effective Date: 12/31/2001
New Ogrid: 000778
New Name: BP America Production Company
Address: P.O. Box 3092
Address: _____
City, State, Zip: Houston, TX 77253

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

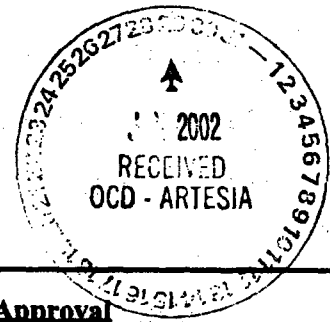
New Operator

Signature: Mary Corley

Printed name: Mary Corley

Title: Sr. Regulatory Specialist

Date: 12/10/2001 Phone: 281-366-4491



Previous operator complete below:

Previous
Operator: ARCO Permian

Previous
OGRID: 000990

Signature: Mary Corley

Printed

Name: Mary Corley

NMOCD Approval

Signature: Jim W. Grew

Printed

Name: District Supervisor

District: _____

Date: FEB 07 2002

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Oil Cons.
N.M. DIV-Dist. 2
1201 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

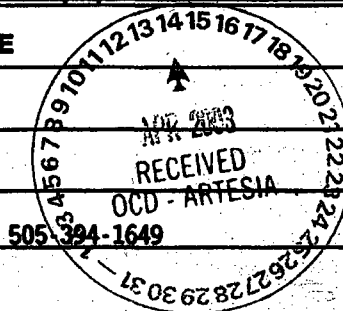
BP America Production Company

3. Address and Telephone No.

P.O. Box 1089, Eunice, NM 88231

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

UNIT LETTER O, 660' FSL & 1980' FEL
SEC. 1-23S-31E



5. Lease Designation and Serial No.

NM-22080

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

BARCLAY FEDERAL 1

9. API Well No.

30-015-24954

10. Field and Pool, or exploratory Area

S. Livingston Ridge Delaware

11. County or Parish, State

EDDY NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

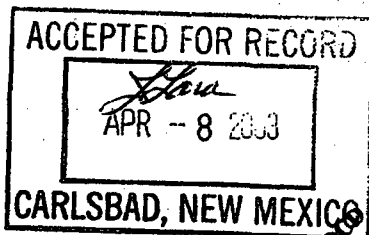
- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other TA
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

TD: 15500' PBD: 11549' PERFS: 6172-88', 6302-06', 6480-xxxx, 6854-7077'

02.09.02: MIRUPU. NDMH. NUBOP. Fish & lay down rods. POH w/tbg & lay down BHA. RIH w/scraper. POH. RIH w/CIBP & set @ 6122'. Circ pkr fluid and test to 500# for 30 mins. Held OK. Chart attached. Lay down tbg. Fill csg to surf. Well T&A. 550



14. I hereby certify that the foregoing is true and correct

Signed

[Signature]

Title Sr. Administrative Assistant

Date 03.12.03

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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

* See instruction on Reverse Side

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy of the final affected wells
list along with 1 copy of this form per
number of wells on that list to appropriate
District Office

Change of Operator

Previous Operator Information:

OGRID: 00778
Name: Bp America Production Company
Address: 501 Westlake Park Blvd. Rm 6.138
Address: _____
City, State, Zip: Houston, TX 77079

New Operator Information:

Effective Date: July 1, 2003
New Ogrid: 192463
New Name: OXY USA WTP LP
Address: P.O. Box 4294
Address: _____
City, State, Zip: Houston, TX 77210-4294

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator

Signature: *Rick Foppiano*

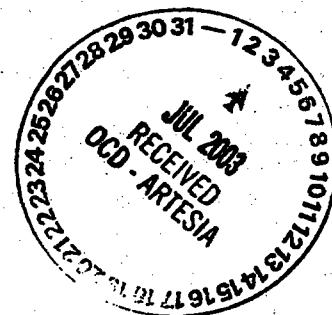
Printed name: Rick Foppiano

Title: Regulatory Team Leader

E-mail

Address: Rick.Foppiano@oxy.com

Date: 6/30/03 Phone: (281) 552-1303



Previous operator complete below:

Previous
Operator: BP America Production Company

Previous

OGRID: 00778

Signature: *Amy T. Spang*

Printed

Name: Amy T. Spang

E-mail

Address: Amy.t.spang@bp.com

NMOCD Approval

Signature: _____

Printed

Name: _____

District: _____

Date: _____

TIM W. GUM
DISTRICT II SUPERVISOR

JUL 14 2003

30-015-24954

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy of the final affected wells
list along with 1 copy of this form per
number of wells on that list to appropriate
District Office

Change of Operator

Previous Operator Information:

OGRID: 192463
Name: OXY USA WTP LIMITED PARTNERSHIP
Address: P. O. BOX 4294
Address: _____
City, State, Zip: HOUSTON, TEXAS 77210-4294

New Operator Information:

Effective Date: 8-1-03
New Ogrid: 8041
New Name: Forest Oil Corp.
Address: Attention: Peggy J. Goss
Address: 1600 Broadway, Suite 2200
City, State, Zip: Denver, CO 80202

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator

Signature: Peggy J Goss

Printed name: PEGGY J GOSS

Title: REGULATORY SPECIALIST

E-mail

Address: pjgoss@forestoil.com

Date: 08/12/03

Phone: 303-812-1655



Previous operator complete below:

Previous
Operator: OXY USA WTP LIMITED PARTNERSHIP

Previous

OGRID: 192463

Signature: Richard E. Foppiano

Printed

Name: Richard E. Foppiano

E-mail

Address: Rick_Foppiano@oxy.com

NMOCD Approval

Signature: Jim W. Goss

Printed

Name: District Supervisor

District: _____

Date: AUG 14 2003

30-015-24954