

11940 - States 1990 - States 1990 - States 1990 - States

Arch Petroleum Inc.

March 5, 1996

Application for Administrative Approval of Eight Unorthodox Well Locations Lea County, New Mexico

William J. LeMay, Director Oil Conservation Division New Mexico Department of Energy, Minerals and Natural Resources 2040 South Pacheco Street Santa Fe, New Mexico 87505

Dear Mr. LeMay:

Arch Petroleum Inc. hereby seeks administrative approval pursuant to the provisions of Division Rule 104 F(2) adopted on January 18, 1996, of the unorthodox well locations listed on attached Exhibit A.

Exhibit B is lease Base Map showing the proposed locations. These locations do encroach on immediately adjacent existing spacing units in the same pool. These adjacent spacing units are in the same lease as the subject wells and are also operated by Arch in all cases. Therefore, there are no affected parties to whom notice is required pursuant to the NMOCD rules.

Exhibit B also shows the first seven infill wells drilled as Phase I wells pursuant to OCD Order #R-10453. The initial potential tests from the NMOCD Form C-105 are listed on Exhibit C. The results have been encouraging to date although it is too early to project an estimated ultimate recovery.

These unorthodox locations in the Blinebry formation are necessary for geological reasons. Exhibit D is a porosity isopach map of the Blinebry. It shows the areal extent of the porosity development in the field. This development is made up of thin porosity stringers that are very discontinuous between wellbores. This discontinuity, coupled with the low average porosity of five to eight percent and low average permeability of 0.5 millidarcies causes low ultimate recoveries and inadequate drainage of the field based on current 40 acre locations.

Exhibit E is a Drainage Map showing the areas estimated to be drained by the existing wells in the Blinebry. The drainage areas shown were calculated and are listed on Exhibit F. The parameters used to make these calculations are also shown. On average, it is seen that the

existing wells are expected to drain a little over 13 acres per well. It is therefore necessary to drill the subject well to avoid waste and efficiently recover the available reserves.

Your attention to this request is appreciated.

Very truly yours,

Chris N. Begner

Chris N. Bezner, P. E. Engineer

CNB/

• •

Attachments

cc: Mr. Jerry Sexton, District Supervisor Oil Conservation Division

Mr. William F. Carr

Attorney for Arch Petroleum Inc.

• • •

;

Proposed Well #	Acreage	Footages .	Unit	Section	Township	Range
C E Lamunyon 57	Federal	2310' FNL 1200' FWL	E	27	23S	37E
C E Lamunyon 58	Federal	2310' FNL 1340' FEL	G	28	23S	37E -
C E Lamunyon 59	Federal	330' FNL 1300' FWL	D	21	23S	37E
C E Lamunyon 60	Federal	1300' FSL 1340' FWL	N	22	23S	37E
E C Hill A 5	Fee	1340' FSL 1980' FEL	J	27	23S	37E
E C Hill B 6	Fee	1340' FSL 2310' FWL	K	27	23S	37E
M K Stewart 8	Federal	1340' FSL 330' FEL	1	28	23S	37E
M K Stewart 9	Federal	1490' FSL 1340' FEL	J	28	23S	37E

PROPOSED INFILL WELLS - TEAGUE BLINEBRY - ARCH PETROLEUM INC. 8 UNORTHODOX LOCATIONS

4-8-96 Note To File: Oversized Exhibits "B" and "E" and concluded as the Administratus Outer file for the F. C. H. 11 "A" (UM/ 14. 5 (5-28-235-375)

٠

• '

:

1

TEAGUE BLINEBRY - INFILL WELLS

	INITIAL POTENTIAL TEST (C-105)								
WELL NAME	DATE	BOPD	BWPD	MCFPD					
C. E. LAMUNYON #51	10/22/95	115	102	706					
C. E. LAMUNYON #52	11/09/95	127	10	222					
C. E. LAMUNYON #53	11/19/95	180	142	802					
C. E. LAMUNYON #55	02/13/96	162	93	709					
SALTMOUNT #3	02/02/96	105	413	200					

· . ·

•

	Г	Net Pay,	Est. Ult. Prim.	Drainage	Drainage
	Current Well	h net, ft.	Rec., MSTB	Acres	Radius, ft.
1	GG Travis 2	126	151.3	21.4	545
2	GG Travis 3	137	112.7	14.7	451
3	Lamunyon 14	90	73.8	14.6	450
4	Lamunyon 20	143	58.9	7.3	319
5	Lamunyon 21	125	111.7	15.9	470
6	Lamunyon 22	86	46.8	9.7	367
7	Lamunyon 23	101	76.5	13.5	433
8	Lamunyon 24	101	55.0	9.7	367
9	Lamunyon 25	119	134.0	20.1	528
10	Lamunyon 26	106	69.1	11.6	402
11	Lamunyon 27	168	177.2	18.8	511
	Lamunyon 28	118	86.6	13.1	426
	Lamunyon 29	119	95.1	14.3	445
	Lamunyon 30	90	109.7	21.7	549
15		148	114.9	13.9	438
	Lamunyon 34	113	137.7	21.7	549
17		84	37.7	8.0	333
	Lamunyon 36	96	59.9	11.1	393
	Lamunyon 37	113	184.6	29.1	636
	Lamunyon 39	110	1.6	0.3	60
	Lamunyon 40	179	158.9	15.8	469
22		137	124.3	16.2	474
23		104	24.8	4.3	243
24		213	135.7	11.4	397
	Lamunyon 50*	123	64.6	9.4	360
	Elk State 2	119	138.4	20.8	536
	W H Elson 1	113	94.8	15.0	456
	E C Hill A 2	110	67.7	11.0	390
	E C Hill A 3	115	3.4	0.5	86
	E C Hill B 2	120	39.0	5.8	284
	E C Hill B 3	115	59.0	9.2	356
	E C Hill C 1	120	73.1	10.9	388
	E C Hill C 2	120	78.1	11.6	401
	M K Stewart 2	109	87.2	14.3	445
	M K Stewart 3	103	42.9	7.4	321
	M K Stewart 4	120	66.7	9.9	371
	M K Stewart 5	109	70.7	11.6	401
	Saltmount 1	168	124.7	13.2	429
	Saltmount 2	119	73.2	11.0	390
	Seeton 1	187	221.9	21.2	542
.•	Total/Average	4,896	3,643.9	13.3	429
	Assumes: Swi=18%,				

EXHIBIT F



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

13 80 8 52

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

GOVERNOR

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	
DHC	
NSL X	······································
NSP	, ·
SWD	
WFX	······································
РМХ	

Proposed Well #	Acreage	Footages	Unit	Section	Township	Range
C E Lamunyon 57	Federal	2310' FNL 1200' FWL	E	27	23S	37E
C E Lamunyon 58	Federal	2310' FNL 1340' FEL	G	28	23S	37E
C E Lamunyon 59	Federal	330' FNL 1300' FWL	D	21	23S	37E
C E Lamunyon 60	Federal	1300' FSL 1340' FWL	N	22	23S	37E
ECHillA5	Fee	1340' FSL 1980' FEL	J	27	23S	37E
E C Hill B 6	Fee	1340' FSL 2310' FWL	K	27	23S	37E
M K Stewart 8	Federal	1340' FSL 330' FEL		28	235	37E
M K Stewart 9	Federal	1490' FSL 1340' FEL	J	28	23S	37E

Gentlemen:

I have examined the application for the:

roller m h Well No. & Unit S-T-R Operator

and my recommendations are as follows:

Yours yery truly,

Jerry Sexton / Supervisor, District 1

/ed

COINTY	100			PIOT	Terr			3/100		- 	·				
COUNTY TOWNSHI	P 23.	Sou t	4	RANGE	37	Eas	 {	NN	1PM		ya.				2
										t I			;		
								æ.	提出				· .)	Ч.
		C S		國際					4.94 m - 1 K 1 M - 1 K 2 M		e ages				(秋) [秋]
	響	财新	影響								1. 18	18. I	1 1 1		99 99 1
旗機型					静图		1							12 2010-1	
新國中 理												ц ,			
教 计 你		B			9		, 1			 ⊥1 - 	2 4 4		- - 1		19 1 9 1927
樂深樓			新型		魏穆		識					8°	A.	с. 2	57 17
建物 源									99999-04 198 9 4-9			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and a		
											n Maria			統合	短期
							8	2	Asland Maxim Maxim	14-				影	
							1. 1.			8-7 S.				*	
家服務						W	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				21. 注意: [1]		5. 4 5 5. 4 5		346 773.
									19 19 19	s. 17.					激
							- 2			- 23-		Andre 1 Angre 1 Angre 1 Angre 1	- 2 -	4	龖
														14.99	1
										* *				織	12-
						· .				3.1		ħ.			*
30	A 21 A 12 A	H 29	Andre Charlos et	The rate of the state	2	6 N			134. (- 26			⊢2	5 -	

ан Хх 16 1910 R ŝ. 1.1 ¥.4 いた P-3280. 8-1-67) -1-68)-4 Jac. 77; 3389 4 4 Sec NY R-3438.7-1-68) 281 (R378),5.1-69 e. 15; 7 Sec.33 -1-69 Sec.17 0

.

1

Ņ

16 g

S.

5

×

1

1122 日

1

ţ

36-