



November 3, 1989

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87509-2088

Attn: Mr. David Catanac

Re: Lower Hospah PM Project
Well No. 63

Gentlemen,

This is pursuant to the conversion of the subject well to injection as per previous correspondence. Attached is the construction data on all wells within the area of review as per your request of June 12, 1989.

Attached also for your convenience is all previously submitted information regarding the proposed conversion.

To our understanding this should complete all information required for your approval of this project.

Please contact me if you have any questions.

Sincerely

A handwritten signature in dark ink, appearing to read "Kevin F. Kane".

Kevin F. Kane
Area Production Superintendent
Rocky Mountain Area



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

June 12, 1989

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Citation Oil & Gas Corporation
P.O. Box 2487
Farmington, New Mexico 87499

Attention: Kevin F. Kane

Re: Lower Hospah PM Project Well No. 63

Dear Kevin:

I have received and reviewed your recent application to convert the subject well to injection into the Hospah formation within the Lower Hospah Pressure Maintenance Project. In your application, you cited several Division Orders where information on area of review wells had been previously submitted to the Division. I have examined said orders and find no such information. These orders were issued prior to 1981, when such information was not required to be submitted. I am therefore requesting that you submit the construction data on all wells within the area of review. I cannot approve your application until such time as the required information is filed.

If you should have any questions, please contact myself at (505) 827-5800.

Sincerely,

A handwritten signature in cursive script that reads "David Catanach".

David Catanach
Engineer



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

1000 RIO BRAZOS ROAD
 AZTEC, NEW MEXICO 87410
 (505) 334-6178

OIL CONSERVATION DIVISION
 BOX 2088
 SANTA FE, NEW MEXICO 87501

DATE 5-12-89

RE: Proposed MC _____
 Proposed DHC _____
 Proposed NSL _____
 Proposed SWD _____
 Proposed WFX X _____
 Proposed PMX _____

RECEIVED
 MAY 15 1989
 OIL CONSERVATION DIV.
 SANTA FE

Gentlemen:

I have examined the application dated 5-10-89
 for the CITATION OIL & GAS CORP. HOSPITAL #63 A-12-17N-9W
 Operator Lease and Well No. Unit, Block

and my recommendations are as follows:

Approved

Yours truly,

E. B. Burch

07-Nov-89

CITATION OIL & GAS CORP.
 TABULATION OF ALL WELLS WITHIN A 1/2 MILE RADIUS
 OF WELL #63
 SOUTH HOSPAH FIELD
 MCKINLEY COUNTY, NEW MEXICO

OPERATOR WELL #	LOCATION	WELL STATUS	DATE DRILLED M/Y	CASING DATA			CEMENT DATA			HOW DETERMINED	PRODUCING INTERVAL FT.	PRODUCING FORMATION	PACKER DEPTH FT.
				TOTAL DEPTH, FT.	SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	FT				
American Exploration Section 1													
Santa Fe RR #46	1-17N-9W	P&A	4/47	1659	5-1/2	1642	100	--	--	--	--	--	
Santa Fe RR #57	1-17N-9W	P&A	8/69	2792	8-5/8	127	110	0	Circ.	--	--	--	
2330 FSL & 1620 FSL					5-1/2	1690	140	780	Calc.				
Santa Fe RR #72	1-17N-9W	P	11/66	1631	7	72	35	0	Circ.	1608-31	L.Hospah		
1250 FSL & 330 FSL					4-1/2	1608	50						
Santa Fe RR #73	1-17N-9W	P	3/67	1665	8-5/8	63	40	0	Circ.	1639-65	L.Hospah		
330 FSL & 2000 FSL					4-1/2	1639	75	1300	Calc.				
Santa Fe RR #74	1-17N-9W	P	4/67	1592	8-5/8	64	40	0	Circ.	1550-92	L.Hospah		
1650 FSL & 330 FSL					4-1/2	1550	75	1300	Calc.				
Santa Fe RR #75	1-17N-9W	P	5/68	1608	8-5/8	60	40	0	Circ.	1584-1608	L.Hospah		
330 FSL & 330 FSL					5-1/2	1584	60	1300	Calc.				
Santa Fe RR #76	1-17N-9W	P	5/68	1583	8-5/8	60	40	0	Circ.	1576-83	L.Hospah		
660 FSL & 825 FSL					5-1/2	1576	60	1300	Calc.				
Santa Fe RR #77	1-17N-9W	P	6/69	1559	8-5/8	63	40	0	Circ.	1534-59	U.Hospah		
330 FSL & 760 FSL					5-1/2	1534	60	1300	Calc.				
Santa Fe RR #79	1-17N-9W	P	6/69	1616	8-5/8	59	50	0	Calc.	1581-1616	U.Hospah		
330 FSL & 2300 FSL					5-1/2	1581	50	1300	Calc.				

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 HOKINLEY COUNTY, NEW MEXICO

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				TOTAL DEPTH, FT.	SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	INTERVAL FT.		PRODUCING FORMATDN		
American Exploration Section 1													
Santa Fe RR #80 630 FSL & 1310 FEL	1-17N-9W	P	12-69	1635	8-5/8	63	50	0	Circ.	1600-35	L.Hospah		
Santa Fe RR #81 550 FSL & 2090 FEL	1-17N-9W	P	12/69	1643	8-5/8	62	50	0	Circ.	1632-43	L.Hospah		
Santa Fe RR #82 990 FSL & 1040 FEL	1-17N-9W	P	4/70	1536	8-5/8	61	50	0	Circ.	1513-36	U.Hospah		
Santa Fe RR #83 1335 FSL & 15 FEL	1-17N-9W	Inj	7/70	1535	7	61	40	0	Circ.	1483-1518	U.Hospah	1461	
Santa Fe RR #84 5 FSL & 2900 FEL	1-17N-9W	Inj	8/73	1656	9-5/8	83	100	0	Circ.	1639-56	L.Hospah	1603	
Santa Fe RR #87 5 FSL & 50 FEL	1-17N-9W	Inj	6/74	1598	8-5/8	105	80	0	Circ.	1585-98	L.Hospah	1584	
Santa Fe RR #88 1140 FSL & 895 FEL	1-17N-9W	P	6/75	1670	8-5/8	103	100	0	Circ.	1575-81	L.Hospah		
Santa Fe RR #89 330 FSL & 2450 FEL	1-17N-9W	P	6/75	1769	8-5/8	104	100	0	Circ.	1648-86	L.Hospah		
Santa Fe RR #90 1000 FSL & 330 FEL	1-17N-9W	P	5/75	1670	8-5/8	102	100	0	Circ.	1564-70	L.Hospah		

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 MCKINLEY COUNTY, NEW MEXICO

OPERATOR WELL #	LOCATION	WELL STATUS	DATE DRILLED M/Y	CASING DATA			CEMENT DATA			PRODUCING INTERVAL FT.	PRODUCING FORMATION	PACKER DEPTH FT.
				DEPTH, FT.	SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	HOW DETERMINED			
American Exploration Section 1												
Santa Fe RR #91 705 FSL & 1650 FEL	1-17N-9W	P	8/81	1682	8-5/8	43	30	0	1580-1614	U.Hospah		
Santa Fe RR #92 1060 FSL & 1550 FEL	1-17N-9W	P&A	4/82	1864	8-5/8	43	30	0				
Santa Fe RR #93 660 FSL & 375 FEL	1-17N-9W	P	9/81	1620	8-5/8	38	30	0	1518-50	U.Hospah		
Santa Fe RR #94 810 FSL & 1550 FEL	1-17N-9W	P	8/81	1700	8-5/8	38	30	0	1618-52	L.Hospah		
Santa Fe RR #95 1450 FSL & 400 FEL	1-17N-9W	P	11/81	1640	8-5/8	44	30	0	1552-62	L.Hospah		
Santa Fe RR #96 730 FSL & 1860 FEL	1-17N-9W	P	7/82	1682	8-5/8	42	30	0	1623-62	L.Hospah		
Santa Fe RR #97 240 FSL & 1655 FEL	1-17N-9W	Inj	2/84		8-5/8	83	60	150	1618-28	U.Hospah	1603	
American Exploration Section 6												
Hanson Lease #2 794 FSL & 576 FWL	6-17N-9W	P	10/65	1569	8-5/8	40	40	0	1515-36	U.Hospah		

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OPERATOR WELL #	LOCATION	WELL STATUS	DATE DRILLED M/Y	CASING DATA			CEMENT DATA			PRODUCING INTERVAL FT.	PRODUCING FORMATION	PACKER DEPTH FT.
				SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	HOW DETERMINED				
American Exploration Section 6												
Hanson Lease #7 990 FSL & 330 FWL	6-17N-8W	P	9/67	8-5/8	64	40	0	Circ.	1551-88	L.Hospah	1466	
Hanson Lease #8 330 FSL & 330 FWL	6-17N-8W	P	9/67	8-5/8	65	40	0	Circ.	1565-1602	L.Hospah	1466	
Hanson Lease #15 730 FSL & 720 FWL	6-17N-8W	P	5/70	8-5/8	73	60	0	Circ.	1517-78	U.Hospah	1466	
Hanson Lease #18 5 FSL & 20 FWL	6-17N-8W	Inj	6/70	8-5/8	74	60	0	Circ.	1518-54	U.Hospah	1466	
Hanson Lease #41 660 FSL & 330 FWL	6-17N-8W	P	10/83	8-5/8	82	60	0	Circ.	1564-82	L.Hospah	1466	
Hanson Lease #43 1325 FSL & 100 FWL	6-17N-8W	Inj	7/84	8-5/8	84	60	0	Circ.	1524-40	L.Hospah	1524	
American Exploration Section 7												
Santa Fe RR #3 660 FNL & 660 FWL	7-17N-8W	P	3/67	8-5/8	37	7	0	Circ.	1568-84	L.Hospah	1466	
Santa Fe RR #7 1650 FNL & 330 FWL	7-17N-8W	P	12/65	8-5/8	24	10	0	Circ.	1606-13	L.Hospah	1466	

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OPERATOR WELL #	LOCATION	WELL STATUS	DATE DRILLED M/Y	CASING DATA			CEMENT DATA			PRODUCING INTERVAL FT.	PRODUCING FORMATION	PACKER DEPTH FT.
				TOTAL DEPTH, FT.	SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	HOW DETERMINED			
American Exploration Section 7												
Santa Fe RR #12 330 FNL & 330 FNL	7-17N-8W	P	8/67	1585	8-5/8	64	40	✓	0	Circ.	1553-85	L.Hospah
Santa Fe RR #13 930 FNL & 330 FNL	7-17N-8W	P	10/67	1606	8-5/8	61	40	✓	0	Circ.	1568-1606	L.Hospah
Santa Fe RR #14 330 FNL & 990 FEL	7-17N-8W	P	10/67	1576	8-5/8	61	40	✓	0	Circ.	1554-76	L.Hospah
Santa Fe RR #15 1650 FNL & 990 FNL	7-17N-8W	P	10/67	1642	8-5/8	62	40	✓	0	Circ.	1615-42	L.Hospah
Santa Fe RR #18 600 FNL & 710 FNL	7-17N-8W	P	5/70	1539	8-5/8	63	50	✓	0	Circ.	1517-39	U.Hospah
Santa Fe RR #19 2090 FNL & 680 FNL	7-17N-8W	P	5/70	1648	8-5/8	62	50	✓	0	Circ.	1579-1648	U.Hospah
Santa Fe RR #22 1200 FNL & 65 FNL	7-17N-8W	Inj	7/70	1544	7	59	40	✓	0	Circ.	1532-68	U.Hospah
Santa Fe RR #39 700 FNL & 330 FNL	7-17N-8W	P	6/75	1650	8-5/8	101	100	✓	0	Circ.	1574-79	L.Hospah
Santa Fe RR #40 1440 FNL & 420 FNL	7-17N-8W	P	8/75	1655	8-5/8	101	100	✓	0	Circ.	1599-1605	L.Hospah

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				SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	FT					
American Exploration Section 7													
Santa Fe RR #41 1000 FNL & 1000 FWL	7-17N-9W	P	3/80	1650	8-5/8 5-1/2	53 1640	35 120	0 1100	0 Circ. Calc.	1591-1611	L.Hospah		
Santa Fe RR #47 1200 FNL & 550 FWL	7-17N-9W	P	2/83	1625	8-5/8 5-1/2	39 1624	30 100	0 950	0 Circ. Calc.	1586-96	L.Hospah		
Santa Fe RR #48 2410 FNL & 410 FWL	7-17N-9W	P	2/83	1665	8-5/8 5-1/2	39 1664	30 100	0 700	0 Circ. Calc.	1630-46	L.Hospah		
Santa Fe RR #50 1980 FNL & 100 FWL	7-17N-9W	P	2/84		8-5/8 5-1/2	82 1636	60 125			1564-82	L.Hospah		
CITATION OIL & GAS SECTION 12													

SOUTH HOSPAH #1x 1980 FNL & 2062 FEL	12-17N-9W	P	4/65	1565	7-7/8 4-1/2	31 1505	10 75	0 900	0 Circ. Calc.	1522-62	U.Hospah		
SOUTH HOSPAH #2 2310 FNL & 2310 FWL	12-17N-9W	P	3/65	1637	7 4-1/2	31 1635	10 60	0 950	0 Circ. Calc.	1558-96	U.Hospah		
SOUTH HOSPAH #3 1650 FNL & 1392 FEL	12-17N-9W	P	9/65	1603	7 4-1/2	31 1602	10 60	0 0	0 Circ.	1584-90	L.Hospah		
SOUTH HOSPAH #4 990 FNL & 2310 FWL	12-17N-9W	P	9/65	1640	7 4-1/2	30 1628	10 60	0 950	0 Circ. Calc.	1551-98	U.Hospah		

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 MCKINLEY COUNTY, NEW MEXICO

OPERATOR WELL #	LOCATION	WELL STATUS	DATE DRILLED M/Y	CASING DATA			CEMENT DATA			HOPE DETERMINED	PRODUCING INTERVAL FT.	PRODUCING FORMATION	PACKER DEPTH FT.
				TOTAL DEPTH, FT.	SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	HOPE DETERMINED				
CITATION OIL & GAS SECTION 12													
SOUTH HOSPANH #5 990 FNL & 2712 FEL	12-17N-9W	Inj	9/65	1645	7	30	10	0	0	Circ.	1534-92	U.Hospah	1500
SOUTH HOSPANH #6 330 FNL & 330 FEL	12-17N-9W	P	6/67	1710	10-3/4	45	50	0	0	Circ.	1582-1600	L.Hospah	
SOUTH HOSPANH #7 1650 FNL & 330 FEL	12-17N-9W	P	8/67	1750	10-3/4	45	75	0	0	Circ.	1611-26	L.Hospah	
SOUTH HOSPANH #8 1650 FNL & 2051 FEL	12-17N-9W	P	9/69	1709	10-3/4	55	50	0	0	Circ.	1613-18	L.Hospah	
SOUTH HOSPANH #9 330 FNL & 2051 FEL	12-17N-9W	P	4/67	3890	10-3/4	86	150	0	0	Circ.	1630-52	L.Hospah	
SOUTH HOSPANH #10 990 FNL & 2300 FNL	12-17N-9W	P	4/67	2927	10-3/4	85	150	0	0	Circ.	1632-62	L.Hospah	
SOUTH HOSPANH #11 1650 FNL & 2310 FNL	12-17N-9W	P	6/67	1774	10-3/4	45	50	0	0	Circ.	1636-66	L.Hospah	
SOUTH HOSPANH #16 1775 FNL & 2330 FNL	12-17N-9W	P	3/68	1710	7-5/8	59	50	0	0	Circ.	1587-1608	U.Hospah	
SOUTH HOSPANH #17 2250 FNL & 3000 FNL	12-17N-9W	Inj	6/68	1787	7-5/8	59	50	0	0	Circ.	1566-93	U.Hospah	1526

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				SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	FT					
CITATION OIL & GAS SECTION 12													
SOUTH HOSPAH #18 1475 FNL & 3055 FWL	12-17N-9W	Inj	3/68	7-5/8	59	50	0	0	Circ.	1554-96	U.Hospah	1484	
SOUTH HOSPAH #20 2310 FSL & 1392 FEL	12-17N-9W	Inj	1/69	4-1/2	1647	60	0	0	Circ.	1610-30	L.Hospah		
SOUTH HOSPAH #24 330 FNL & 2650 FEL	12-17N-9W	P	9/69	8-5/8	51	40	0	0	Circ.	1642-55	L.Hospah		
SOUTH HOSPAH #25 330 FNL & 1505 FEL	12-17N-9W	P	3/69	4-1/2	1683	240	0	0	Circ.	1610-30	L.Hospah		
SOUTH HOSPAH #26 330 FNL & 380 FEL	12-17N-9W	P	3/69	8-5/8	50	40	0	0	Circ.	1522-56	U.Hospah		
SOUTH HOSPAH #27 1570 FNL & 330 FEL	12-17N-9W	P	3/69	8-5/8	50	40	0	0	Circ.	1548-77	U.Hospah		
SOUTH HOSPAH #28 933 FNL & 1485 FEL	12-17N-9W	P	6/69	8-5/8	51	40	0	0	Circ.	1549-81	U.Hospah		
SOUTH HOSPAH #29 410 FNL & 1870 FEL	12-17N-9W	P	9/69	8-5/8	75	70	0	0	Circ.	1554-81	U.Hospah		
SOUTH HOSPAH #30 950 FNL & 1980 FEL	12-17N-9W	P	9/69	8-5/8	71	70	0	0	Circ.	1555-88	U.Hospah		

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				TOTAL DEPTH, FT.	SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	PRODUCING INTERVAL FT.				
CITATION OIL & GAS SECTION 12													
SOUTH HOSPDAH #47 795 FNL & 1775 FWL	12-17N-9W	P	11/71	1780	9-5/8 7	62 1647	40 125	0 1147	Circ. Calc.	1640-70	L.Hospah		
SOUTH HOSPDAH #48 1485 FNL & 2817 FEL	12-17N-9W	P	12/71	1635	8-5/8 5-1/2	62 1625	40 125	0 780	Circ. Calc.	1559-1600	U.Hospah		
SOUTH HOSPDAH #49 885 FNL & 2117 FEL	12-17N-9W	P	12/71	1639	8-5/8 5-1/2	62 1610	40 125	0	Circ.	1610-39	L.Hospah		
SOUTH HOSPDAH #50 950 FNL & 900 FEL	12-17N-9W	P	12/71	1601	9-5/8 7	36 1583	40 125	0	Circ.	1583-1601	L.Hospah		
SOUTH HOSPDAH #52 720 FNL & 1850 FWL	12-17N-9W	Inj	5/72	1622	8-5/8 5-1/2	74 1620	50 150	0 600	Circ. Calc.	1605-19	U.Hospah	1531	
SOUTH HOSPDAH #53 950 FNL & 330 FEL	12-17N-9W	P	10/72	1578	8-5/8 7	63 1559	50 100	0	Circ.	1559-78	L.Hospah		
SOUTH HOSPDAH #54 1319 FNL & 5 FEL	12-17N-9W	Inj	7/74	1624	8-5/8 5-1/2	88 1624	75 225	0	Circ.	1594-1604	L.Hospah	1558	
SOUTH HOSPDAH #55 1750 FNL & 1550 FEL	12-17N-9W	P	5/73	1583	9-5/8 7	100 1583	90 100	0 900	Circ. Calc.	1543-83	U.Hospah		
SOUTH HOSPDAH #56 1100 FNL & 1275 FEL	12-17N-9W	Inj	9/74	1602	9-5/8 7	102 1584	90 95	0 900	Circ. Calc.	1542-65 1584-1602	U.Hospah L.Hospah	1535 1575	

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OPERATOR WELL #	LOCATION	WELL STATUS	DATE DRILLED M/Y	CASING DATA			CEMENT DATA			PRODUCING INTERVAL FT.	PRODUCING FORMATON	PACKER DEPTH FT.	
				TOTAL DEPTH, FT.	SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	HOW DETERMINED				
CITATION OIL & GAS SECTION 12													
SOUTH HOSPAH #59 2340 FNL & 2500 FEL	12-17N-9W	Inj	7/74	1655	8-5/8	89	75	0	0	Circ.	1566-96	U.Hospah	1520
SOUTH HOSPAH #60 2210 FNL & 1200 FEL	12-17N-9W	Inj	7/74	1646	8-5/8	88	75	0	0	Circ.	1617-27	L.Hospah	1565
SOUTH HOSPAH #61 1120 FNL & 2510 FEL	12-17N-9W	P	11/78	1715	9-5/8	87	90	0	0	Circ.	1620-32	L.Hospah	
SOUTH HOSPAH #62 650 FNL & 1770 FEL	12-17N-9W	P	11/78	1710	9-5/8	93	90	0	0	Circ.	1614-42	L.Hospah	
SOUTH HOSPAH #63 710 FNL & 1325 FEL	12-17N-9W	P	12/78	1695	9-5/8	94	90	0	0	Circ.	1598-1614	L.Hospah	
SOUTH HOSPAH #64 1360 FNL & 900 FEL	12-17N-9W	P	12/78	1685	9-5/8	90	90	0	0	Circ.	1590-1605	L.Hospah	
SOUTH HOSPAH #65 1418 FNL & 2769 FEL	12-17N-9W	P	2/82	1715	13-3/8	133	175	0	0	Circ.	1554-93	U.Hospah	
SOUTH HOSPAH #66 1646 FNL & 2667 FEL	12-17N-9W	P	12/81	1715	13-3/8	160	175	0	0	Circ.	1569-98	U.Hospah	
Hospah Core Hole #1 1477FNL & 2942 FEL	12-17N-9W	P&A	7/81	1719	9-5/8	127	100	0	0	Circ.			

07-Nov-89

CITATION OIL & GAS CORP.
TABULATION OF ALL WELLS WITHIN A 1/2 MILE RADIUS
OF WELL #63
SOUTH HOSPAH FIELD
MCKINLEY COUNTY, NEW MEXICO

OPERATOR	WELL #	LOCATION	WELL STATUS	DATE		CASING DATA			CEMENT DATA		PRODUCING INTERVAL FT.	PRODUCING FORMATION	PACKER DEPTH FT.
				DRILLED M/Y	TOTAL DEPTH, FT.	SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	HOW DETERMINED			
Hospah Core Hole #2		12-17N-9W	P&A	7/81	1742	9-5/8	128	80	0	Circ.			
1522 PNL & 2695 FEL													

CITATION OIL & GAS
SECTION 12



May 2, 1989

New Mexico Oil & Gas Commission
P. O. Box 2088
Santa Fe NM 87509-2088

*Rec'd
5-11-89*

Attention: Mr. David Catanac

Re: Hospah No. 63 Conversion
Sec. 12 T17N, R9W
McKinley County, New Mexico

Gentlemen:

Citation Oil & Gas Corp. requests approval under provisions of Division Order R4389A to convert the subject well to Lower Hospah water injector. The well is currently an active Lower Hospah Producer.

Please find attached a completed NMOCC Form C-108 with appropriate attachments that provide the required information concerning our proposal.

- I. Form C-108.
- II. #63 wellbore schematic and completion history.
- III. Area map designating the area of review.
- IV. Data outlining proposed operations.
- V. Proof-of Notice

As outlined in previous correspondence (refer to letter of March 29, 1989) Citation desires to re-establish injection into the portion of the reservoir where No. 63 is located. This was previously accomplished by the No. 56 dual injection well which is currently T&A'd due to mechanical problems. It is believed that ultimate oil recovery will be improved not only by re-establishing injection, but also by improving pattern symmetry.

Please note on Form C-108 the reference made to several division and administrative orders that have been approved and are on file with the NMOCC concerning waterflood initiation and various expansions at Hospah. The areas of review for these division orders totally encompass the area of review for Citation's current proposal. (Refer to attached area map.) Mr. Ernie Bush of the Aztec, New Mexico Division Office has been very helpful in determining which orders were specific to which wells, and where duplicate offset well information had previously been submitted.

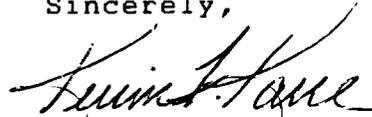
Listed below are, as we understand, the specific order number with its' corresponding injection well. This information is provided in lieu of resubmitting previously submitted information.

<u>Company</u>	<u>Order No.</u>	<u>Injection Well</u>
Tenneco	R-4389A	A-54, 57, 58, 59, 60, 61
Tenneco	R-5506 - 1977	58, 59 ^{ok}
Tenneco	R-3957	41, 42 ^{ok}
Tenneco	R-3848	23 ^{ok}
Tenneco	PMX 56	A-54, 57, 58, 59, 60, 61
Tesoro	PMX 59	A-87

In conjunction with the attached information and that which has been filed for and approved in the past, Citation Oil & Gas Corp. respectfully requests administrative approval to commence with conversion of the subject well #63.

Thank you for your consideration in this matter. If you require any additional information, please contact me at (505) 327-0408.

Sincerely,



Kevin F. Kane
Area Engineer
Rocky Mountain Area
P. O. Box 2487
Farmington NM 87499

cc: Frank Chavez-Aztec NMOCC
Mr. Richard Porter - Citation Oil & Gas Corp.
Mr. Marley Stewart - American Exploration

R-4389 - # 33, 36

R-4389 - B # 41, 56

R-3957 - 41, 42

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no

II. Operator: CITATION OIL & GAS CORP.

Address: P. O. Box 2487, Farmington NM 87499

Contact party: Kevin F. Kane Phone: (505) 327-0408

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? yes no
If yes, give the Division order number authorizing the project R-4389A.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Kevin F. Kane Title Area Engineer

Signature: *Kevin F. Kane* Date: May 3, 1989

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. R5506, R3957, R3848, PMX 56, PMX 87

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

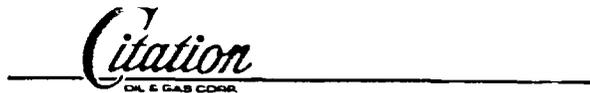
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



RECOMMENDED REMEDIAL WORK

DATE: May 3, 1989

LEASE: Lower Hospah WELL NO. 63 CITATION WI 1.000
RI .845

710' FNL 1325' FEL
LOCATION: Unit A, Sec 12, T17N, R9W FIELD NO. _____ CO McKinley STATE NM

TD DRILLED 1695 PBTD 1647 KB ELEV 6979 COMP. DATE 12-3, 1978

COMPLETION METHOD Casing cemented to T.D. - Jet perforated

KB 13 FEET ABOVE GROUND

PAY ZONES

Name	<u>Lower Hospah</u>		
Top	<u>1597</u>		
Base	<u>1619</u>		
Net Pay	<u>22</u>		

CASING AND LINER RECORD

Size	Weight	Depth	Cement	Hole Size	Date	Remarks
<u>9-5/8</u>	<u>36</u>	<u>90</u>	<u>90 sx</u>	<u>13-3/4</u>	<u>11/78</u>	
<u>7</u>	<u>23</u>	<u>1690</u>	<u>375 sx</u>	<u>8-3/4</u>	<u>11/78</u>	

CURRENT PROD. TEST: OIL _____ WATER _____ GAS _____ HOURS _____

REASON FOR REMEDIAL WORK: Convert to Lower WIW

ESTIMATED COSTS

GROSS: \$ _____ NET: \$ _____

RECOMMENDED BY:

APPROVED BY:

LEASE: Lower Hospah

WELL NO. 63

9-5/8 " OD. 36 LB. K-55 CSG. W/ 90 SX

TOC @ Surface .

7 " OD. 23 LB. K-55 CSG. W/ 375 SX

TOC @ 125' (Calc) .

DETAILED PROCEDURE:

- 1) MIRUSU. NDWH.
- 2) POOH. Lay down pump & rods.
- 3) POOH. Lay down 2-7/8" tbg.
- 4) RIH w/7' Lokset PKR on 2-3/8" tbg.
- 5) Load annulus w/PKR fluid.
- 6) Set PKR @ 1500'±
- 7) Land tbg. NUWH.
- 8) Pressure test tbg-csg annulus. (NMOCC to witness).
- 9) Put well on injection.

90'

1598'
4SPF
1614'

LOWER
HOSPAN

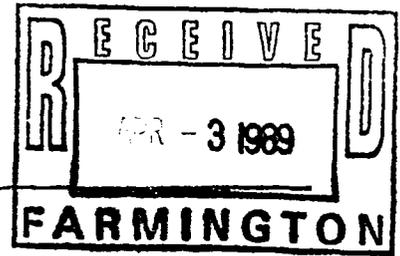
PBTD
@ 1647'

1690'

ATTACHMENT IV

PROPOSED INJECTION OPERATIONS
FOR LOWER HOSPAAH WIW #63

Injection Rate, BWPD:	1200 (Avg.)	2000 (Max.)
Injection Pressure, PSIG:	175 (Avg.)	350 (Max.)
Water Source:	Hospah produced water	
Closed System:	i.e.: 2-3/8" tbg w/pkr, set @1500 +/- (within 100' of perfs)	



March 29, 1989

New Mexico Oil & Gas Commission
P. O. Box 2088
Sante Fe, New Mexico 87504-2088

Attn: Mr. David Catanac

Gentlemen,

Citation Oil & Gas Corp. owns and operates production in the Hospah field in McKinley Co., New Mexico. Our production was purchased from Tenneco Oil Company and is directly offset by production owned and operated by American Exploration Company who purchased their interests from Tesoro Petroleum Corporation. Both operators produce from the same two reservoirs, Upper and Lower Hospah, and both reservoirs are being waterflooded by both operators.

Citation had to suspend the use of Well No. 56, a dual injector into both zones, due to mechanical problems. This has resulted in a loss in daily production and is adversely affecting the waterflood's efficiency. If corrective measures are not taken, this could ultimately affect the cumulative recovery of oil and lead to premature abandoning of producing wells. Citation would like to convert Well No. 63 (approximately 450 feet north of Well No. 56) from a producer in the Lower Hospah Zone to an injection well in the Lower Hospah. Our area engineer, Mr. Kevin Kane, checked on this and was told that we would have to go through a permitting process to obtain approval to do so. This involves supplying information on all wells within a one-half mile radius of the proposed well. We believe there are sufficient existing injection wells on all sides of Well No. 63 (see attached plat) whose one-half mile radius exceeds the one-half mile radius around the proposed Well No. 63, that an exception to the permitting process could be made and an administrative approval given. We believe it is in the best interest of all parties concerned (working interest owner as well as royalty interest owners) that this approval be given as expeditiously as possible. This will minimize any waste that might occur since Citation is prepared to spend the necessary funds for the conversion of the well as soon as approval is received.

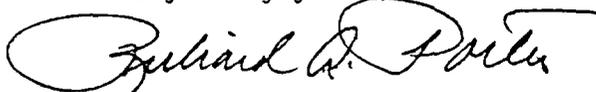
Mr. David Catanac
Page 2
March 29, 1989

I would like to point out that in the past Tenneco and Tesoro jointly drilled and operated several lease line wells in order to obtain the most efficient injection pattern to maximize production and ultimate recovery. Today, both Citation and American are cooperating in lease line injection as it is mutually beneficial to the production and recovery of the oil reserves by both companies. American is also actively injecting in both zones in various wells within the boundaries of their portion of the field.

In conclusion, Citation respectfully requests that permission be granted to convert Well No. 63 from producer status to injection status. If necessary, we will follow up with the required formal application in a timely manner.

Your consideration of this request and cooperation is deeply appreciated. Please feel free to call either myself at the letterhead number or Mr. Kevin Kane at our Farmington office (505/327-0408).

Very truly yours,



Richard A. Porter
Area Production Manager

RAP/wb
attachment

cc: Jerry M. Crews
Field File
✓ Farmington
Mr. Frank Chavez
NMOGC, Aztec

Affidavit of Publication

STATE OF NEW MEXICO,

) ss

COUNTY OF MCKINLEY

Norma L. Toledo being duly sworn upon

oath, deposes and says:

As Legal Clerk of the Gallup Independent, a newspaper published in and having a general circulation in McKinley County, New Mexico, and in the City of Gallup, therein: that this affiant makes this affidavit based upon personal knowledge of the facts herein sworn to. That the publication, a copy of which is hereto attached was published in said newspaper during the period and time of publication and said notice was published in the newspaper proper, and not in a supplement thereof,

for Three Times, the first publication being on the

3rd day of May, 19 89 the

second publication being on the 4th day of

May, 19 89 the third publication

on the 5th day of May, 19 89

and the last publication being on the _____ day of

_____, 19 _____

That such newspaper, in which such notice or advertisement was published, is now and has been at all times material hereto, duly qualified for such purpose, and to publish legal notices and advertisements within the meaning of Chapter 12, of the statutes of the State of New Mexico, 1947 compilation.

Norma L. Toledo
Affiant.

Sworn and subscribed to before me this 8th day of

May, 19 89

Terisha Kay DeLeon
Notary Public.

My commission expires 8-29-89

LEGAL NOTICE
Citation Oil & Gas Corp., P.O. Box 288,
Farmington, New Mexico 87401, is applying
to the Oil and Gas Conservation Commission
for Authority to convert a
production well to an injection well in
Citation's Lower Henschel Waterflood. The
contact for Citation is Kevin Kama, Area
Engineer. He can be contacted at (505) 297-
0600. The well to be converted to injection
is the:

Sec. 12, T12N, R9W

Citation plans continuous injection into
the Lower Henschel formation at an average
depth of 1650 feet. Citation plans a maximum
daily injection rate of 4000 bbls of
seawater at a pressure of 500 psi. If
any interested party located within
these locations has any objections to
the proposed action, please contact the Oil
Conservation Division, P.O. Box 288,
Santa Fe, New Mexico 87504 within 15
days of the date of publication.
Legal Notice (Published in The Gallup
Independent, May 3, 4, 5, 1989)



March 29, 1989

New Mexico Oil & Gas Commission
P. O. Box 2088
Sante Fe, New Mexico 87504-2088

Attn: Mr. David Catanac

Gentlemen,

Citation Oil & Gas Corp. owns and operates production in the Hospah field in McKinley Co., New Mexico. Our production was purchased from Tenneco Oil Company and is directly offset by production owned and operated by American Exploration Company who purchased their interests from Tesoro Petroleum Corporation. Both operators produce from the same two reservoirs, Upper and Lower Hospah, and both reservoirs are being waterflooded by both operators.

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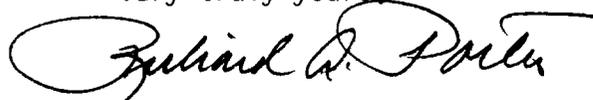
Mr. David Catanac
Page 2
March 29, 1989

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In conclusion, Citation respectfully requests that permission be granted to convert Well No. 63 from producer status to injection status. If necessary, we will follow up with the required formal application in a timely manner.

Your consideration of this request and cooperation is deeply appreciated. Please feel free to call either myself at the letterhead number or Mr. Kevin Kane at our Farmington office (505/327-0408).

Very truly yours,

A handwritten signature in cursive script that reads "Richard A. Porter". The signature is written in black ink and is positioned above the typed name and title.

Richard A. Porter
Area Production Manager

RAP/wb
attachment

cc: Jerry M. Crews
Field File
Farmington
Mr. Frank Chavez
NMOGC, Aztec

Santa Fe R. "A" S.F.P. No. 3487

96 91
81
80 76 93
72 77 75
89 79 73 97
97

Proposed
Injector
63

STENNECO

SOUTH

HOSPAH

SAND

UNIT

12

-  DUAL
-  UPPER
-  LOWER
-  PRODUCER
-  INJECTOR

Citation
OIL & GAS CORP.

HOSPAH FIELD
McKinley County, New Mexico

SOUTH HOSPAH SAND UNIT

2000' 0 2000'



April 29, 1988

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe NM 87504-2088

Re: Hospah Water Injector #39
Section 12, T17N, R9W
McKinley County, New Mexico

Attention: Mr. David Catanach

Gentlemen:

Pursuant to complying with State and Federal UIC Regulations, Citation Oil & Gas Corporation has undertaken casing repair work on the subject well.

As per the attached documentation, it has been determined that the 5-1/2" production casing in this well has satisfactory pressure integrity above the current packer setting point of 1552'.

It has also been determined that a 300 +/- psi incrementally higher pressure is required to inject into the Upper Hospah zone over the Lower Hospah zone. Based on this fact, our Company is confident that 100% of any commingled Upper/Lower Hospah injection will exit in the Lower zone.

Citation Oil & Gas Corp. therefore requests permission to expand the approved injection interval in this well to include both the Upper and Lower Hospah zones (1578' - 1687').

Please contact us at our Farmington office at (505) 327-0408 if you require any additional information.

Sincerely,

A handwritten signature in cursive script that reads "Kevin F. Kane".

Kevin F. Kane
Division Engineer

KFK:mfm

Enclosure

LEASE: Hospah

WELL NO. WIW 39

8-5/8 " OD. 24 LB. K-55 CSG. W/ 75 SX

TOC @ surface .

5-1/2 " OD. 15.5 LB. K-55 CSG. W/ 100 SX

TOC @ 1120' (est) .

WELL WORK HISTORY:

~~XXXXXXXXXXXXXXXXXXXX~~

CONVERSION TO WATER INJECTOR:

5-85: Cmt squeeze Upper Hospah perms 1578'-1596' w/40 sx cement.

Isolate casing leaks from 120' - 150'. Cement squeeze leaks w/35 sx cmt. Circulate cement to surface through bradenhead.

Drill out cement. Pressure test casing to 500 psi. Held for 15 minutes.

Drill out 5-1/2" casing shoe. Drill open hole to 1687'.

RIH w/53 jts 2-7/8" tubing and tension packer. Set packer at 1615'. Put well on injection.

TEST CASING FOR LEAKS

4-88: Release packer. Pull up hole 2 jts. Reset packer at 1552'. Pressure test annulus to 150 psi. Held for 15 min.

2 7/8" TPC

MODEL
10-1 PKR
@1552'

OLD
UPPER
HOSPAN
PERMS
SQUEEZE
5/85 1596

1621'

LOWER
HOSPAN

4 3/4" O.H.
@1687'

71'



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

GARREY CARRUTHERS
GOVERNOR

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

May 2, 1988

Kevin Kane
Citation Oil & Gas Co.
P.O. Box 2487
Farmington, NM 87499

Dear Mr. Kane:

This letter is in response to your request for a written verification, that I did witness a mechanical integrity test for the Hospah #39 in H-12-17N-9W. Dicky Charley, foreman for the Hospah field, performed the test on 4-25-88. The well was injected with water to 140 lbs. and within 15 minutes, approximately 9 lbs. had been lost. The loss was less than 10% and we consider this adequate.

I have attached a copy of my field trip report, that will be sent to Santa Fe to be processed. I hope this letter and report will be helpful.

Sincerely,

A handwritten signature in cursive script that reads "Karen Cloer Baird".

Karen Cloer Baird
Tech. I

Attachment

xc

NEW MEXICO OIL CONSERVATION DIVISION
FIELD TRIP REPORT

I N S P E C T I O N	C L A S S I F I C A T I O N	F A C I L I T Y	H O U R S	Q U A R T E R
				H O U R S
T	U	I	6	2

Name Karen Cloer Baird Date 4-25-88 Miles 247 District 3

Time of Departure 7 am Time of Return 1:30 pm Car. No. OF-8776

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Karen Cloer Baird

2 wells-12-17N-9W- I witnessed a pressure test on the Hospah #39 & #59, Citation Oil & Gas Co. Both wells lost less than 10% of the pressure in a 15 minute period and we consider this adequate.

<u>Mileage</u>		<u>Per Diem</u>	<u>Hours</u>
UIC	<u>247</u>	UIC	<u>6.00</u>
RFA	<u> </u>	RFA	<u> </u>
Other	<u> </u>	Other	<u> </u>

TYPE DISTRICT ENUMERATED	DISTRICT CLASSIFICATION	NATURE OF SPECIFIC WELL OR FACILITY INSPECTED
H - Housekeeping	U - Underground Injection Control - any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndly injection and production wells, water flows, or pressure tests, surface injection equipment, plugging, etc.)	D - Drilling
P - Plugging		P - Production
C - Flapping Cleanup		I - Injection
T - Well Test		C - Combined production/ Injection operations
R - Repair/Makeover		S - SWD
J - Waterflow		U - Underground Storage
H - Disposal or Spill	R - Inspections relating to Reclamation Fund Activity	G - General Operation
K - Water Contamination	O - Other - Inspections not related to injection or the reclamation fund	F - Facility or Location
O - Other		H - Hoisting

Affidavit of Publication

STATE OF NEW MEXICO,

) ss

COUNTY OF MCKINLEY

Norma L. Toledo being duly sworn upon

oath, deposes and says:

As Legal Clerk of the Gallup

Independent, a newspaper published in and having a general circulation in McKinley County, New Mexico, and in the City of Gallup, therein: that this affiant makes this affidavit based upon personal knowledge of the facts herein sworn to. That the publication, a copy of which is hereto attached was published in said newspaper during the period and time of publication and said notice was published in the newspaper proper, and not in a supplement thereof,

for Three Times, the first publication being on the

3rd day of May, 19 89 the

second publication being on the 4th day of

May, 19 89 the third publication

on the 5th day of May, 19 89

DAVID
CATANAC

and the last publication being on the _____ day of

_____, 19 _____

That such newspaper, in which such notice or advertisement was published, is now and has been at all times material hereto, duly qualified for such purpose, and to publish legal notices and advertisements within the meaning of Chapter 12, of the statutes of the State of New Mexico, 1941 compilation.

Norma L. Toledo

Affiant.

Sworn and subscribed to before me this 23 day of

May A.D., 19 89

Linda K. Helms

Notary Public.

My commission expires

8-29-89

LEGAL NOTICE

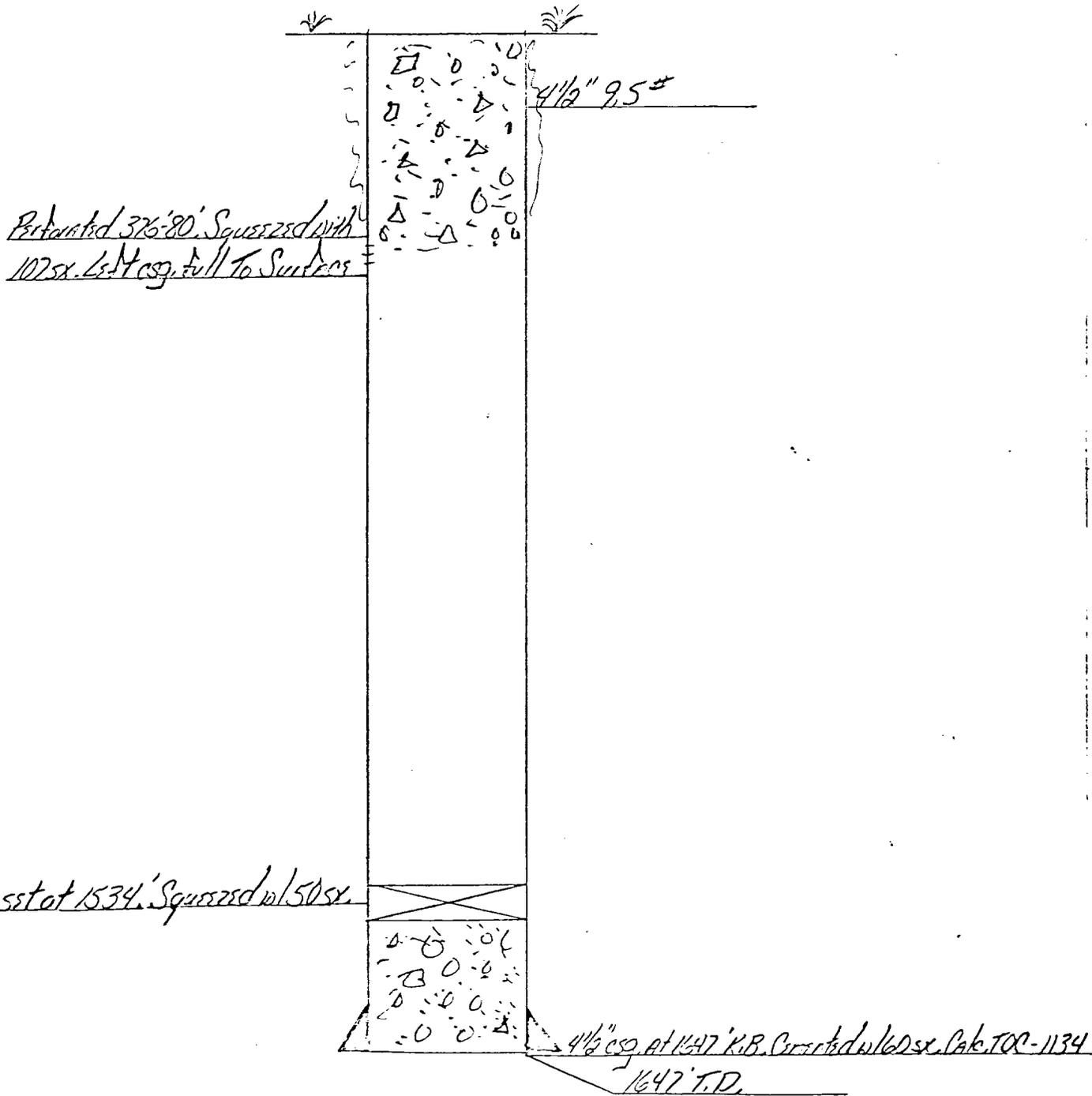
Citation Oil & Gas Corp., P.O. Box 2487, Farmington, New Mexico 87400, is applying to the Oil and Gas Conservation Commission for Authorization to convert a producing oil well to an injection well in Citation's Lower Hoshah Waterflood. The contact for Citation is Kevin Kane, Area Engineer. He can be contacted at (505) 327-0408. The well to be converted to injection is the:

Hoshah #63
710' FNL, 1325' FEL
Sec. 12, T17N, R9W

Citation plans continuous injection into the Lower Hoshah formation at an average depth of 1600'. Citation plans a maximum daily injection rate of 2000 BPD at a maximum injection pressure of 200 psi. If any interested party located near to these locations has any objections to the proceeding action, please contact the Oil Conservation Division, P.O. Box 2068, Santa Fe, New Mexico 87501, within 15 days.

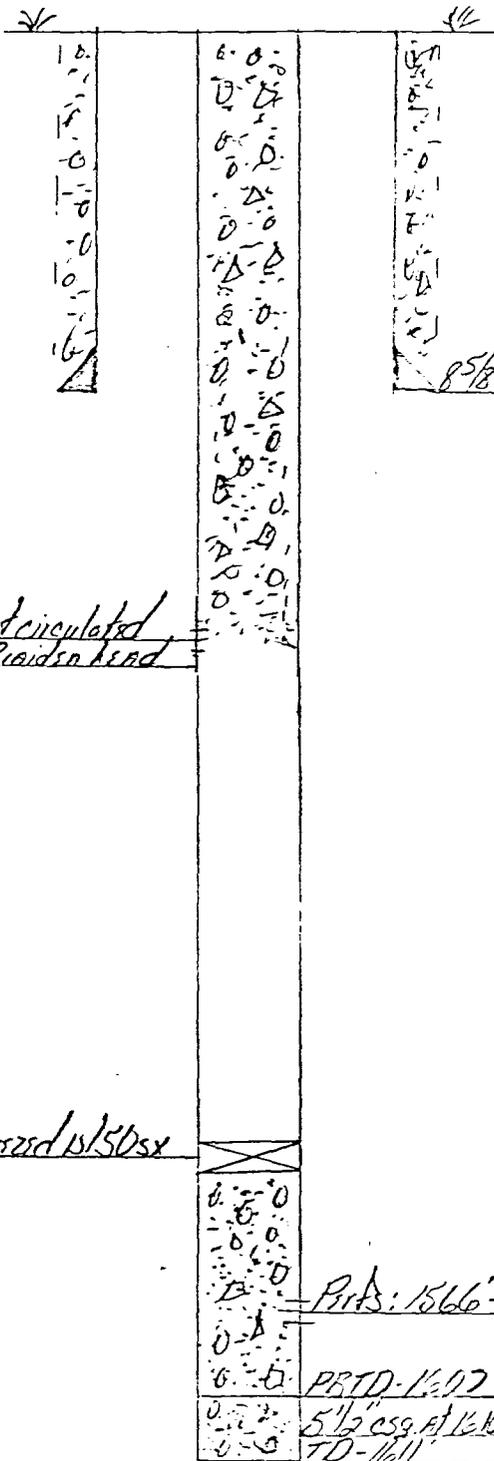
Legal # 3926 Published in The Gallup Independent May 3, 4, 5, 1989.

2310' FSL & 1392' FEL
SECTION 12T-17N-R9W



Wellbore Schematic
Plugged & Abandoned Well
Citation Oil & Gas Corp.
South Hospah #20
South Hospah Field
McKinley County, New Mexico

5 ' FNL & 1544' FEL
SECTION 12E-17N-R9W



8 5/8" csg. at 71' Cemented w/ 75 sx. - Circulated

Perforated at 325' Squashed w/ 100 sx. Cement circulated out Braidon head

Retainers at 1500' Squashed w/ 50 sx

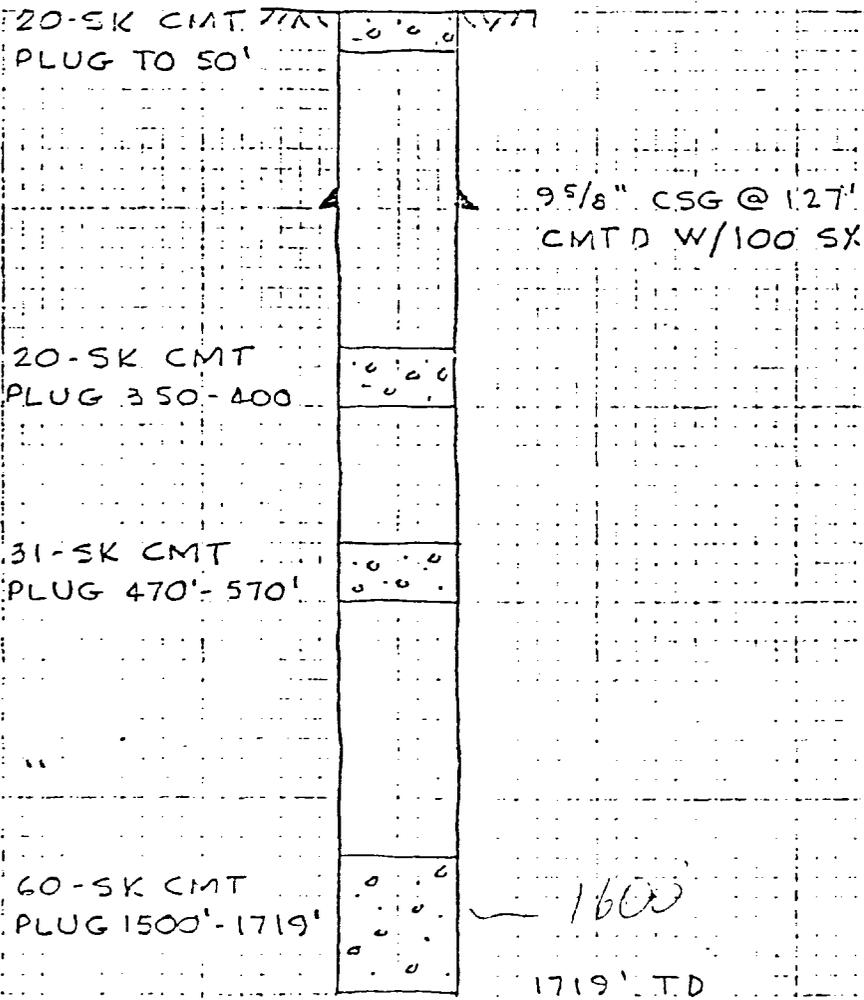
PRTD: 1566'97"

PRTD: 1607'

5 1/2" csg. at 1610' - cemented w/ 100 sx. Calc. TOC - 1177'
TD - 1611'

Wellbore Schematic
Plugged & Abandoned Well
Citation Oil & Gas Corp.
South Hospah #41
South Hospah Field
McKinley County, New Mexico

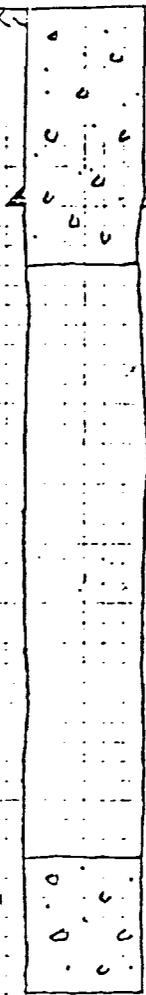
1477' FNL & 2942' FEL
SEC. 12-T17N-R5W



WELLBORE SCHEMATIC
PLUGGED AND ABANDONED WELL
TENNECO OIL CO.
SOUTH HOSPAH SAND UNIT
CORE HOLE NO. 1
SOUTH HOSPAH FIELD
McKINLEY COUNTY, NM

1522' FNL & 2695' FE
SEC. 12 - T17N - R9W

80-SK CMT
PLUG 0'-200'



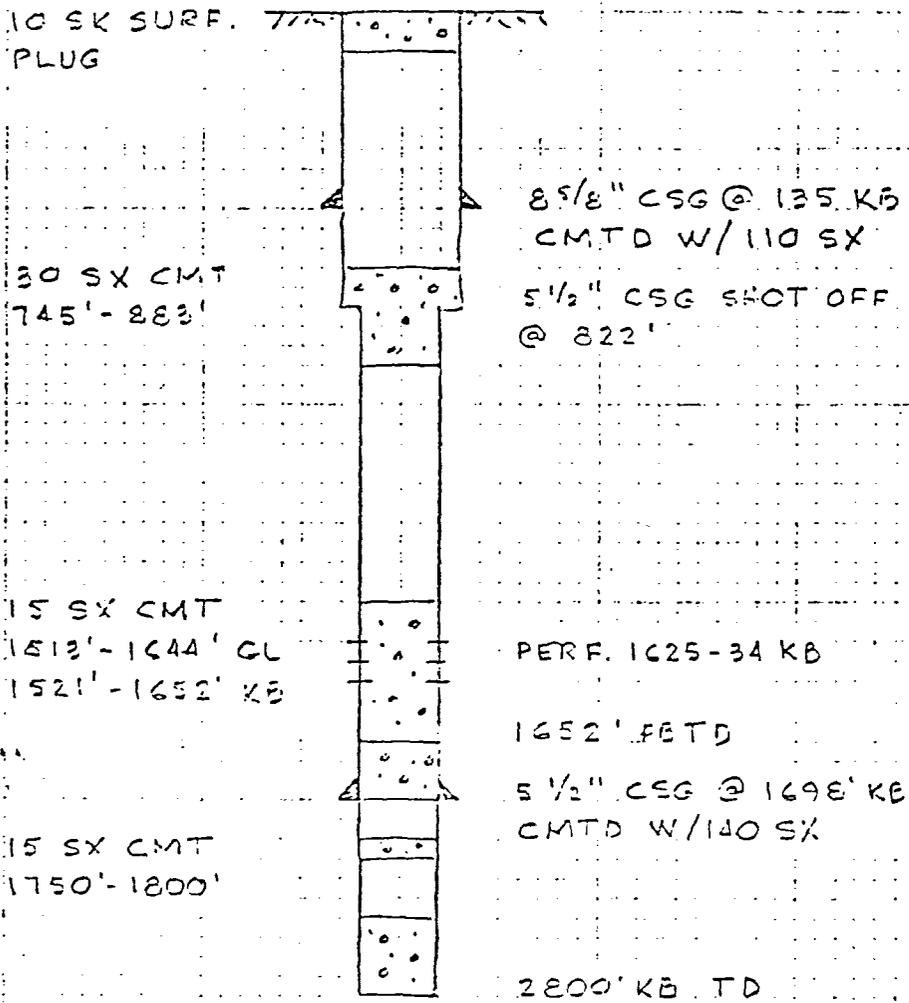
9 5/8" CSG @ 128'
CMTD W/80 SX

70-SK CMT
PLUG 1500'-1742'

1742' TD

WELLBORE SCHEMATIC
PLUGGED AND ABANDONED WELL
TENNECO OIL CO.
SOUTH HOSPAH SAND UNIT
CORE HOLE NO. 2
SOUTH HOSPAH FIELD
McKINLEY COUNTY, NM

2330' FEL & 1620' FSL
SEC 1 - T17N - R9W



WELLBORE SCHEMATIC
PLUGGED AND ABANDONED WELL
TESORO PETROLEUM CORP.
SANTA FE NO. 57
SOUTH HOSPAH FIELD
McKINLEY COUNTY, NM

1020' FSL & 1550' FSL
SEC. 1-T17N-R9W

20-SK CMT
PLUG 0'-60'

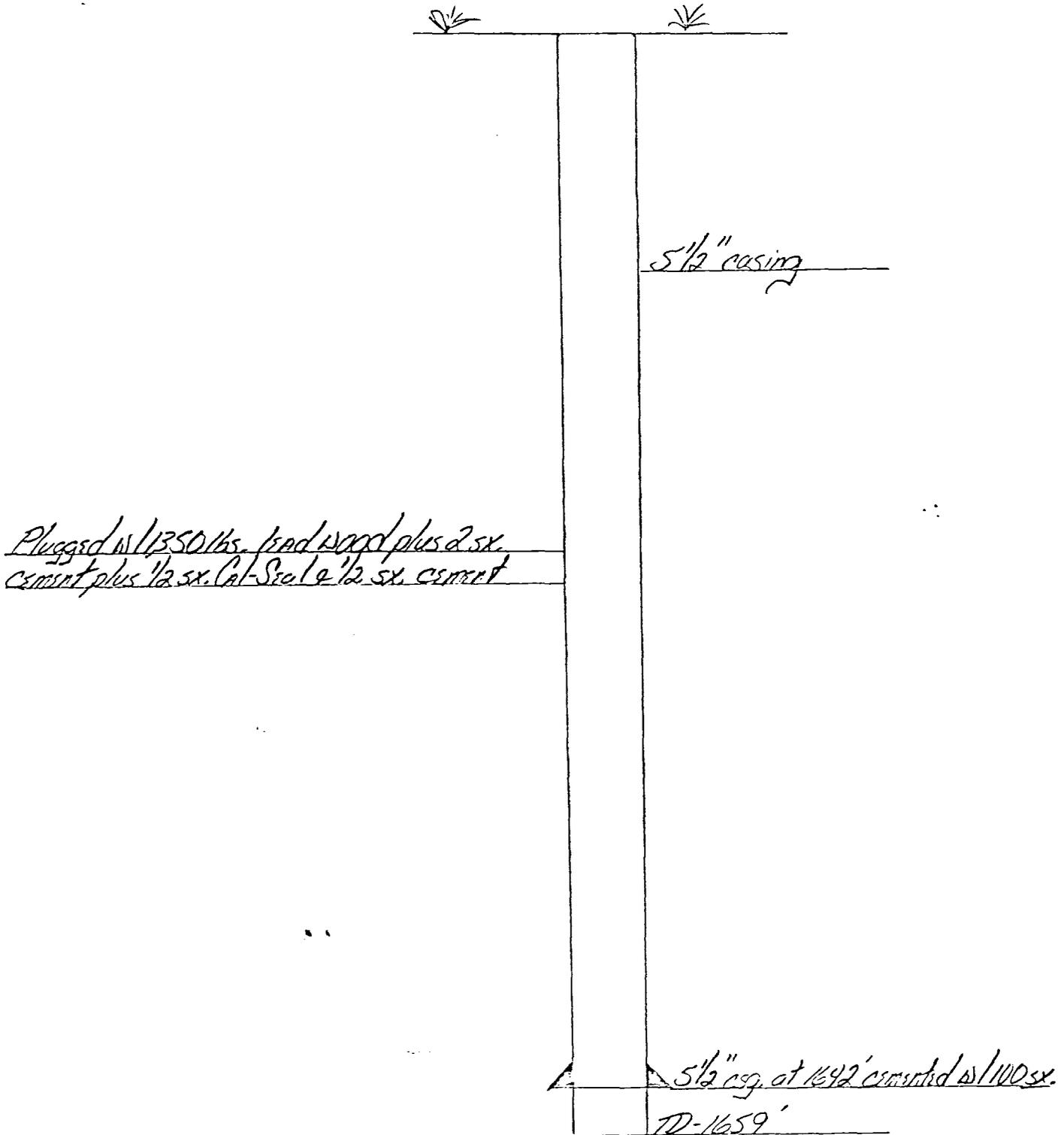
8 5/8" CSG @ 43'
CMTD W/ 30 SX

50-SK CMT
PLUG 1650'-1780'

1846' TD

WELLBORE SCHEMATIC
PLUGGED AND ABANDONED WELL
TESORO PETROLEUM CORP.
SANTA FE "A" NO. 92
SOUTH HOSPAH FIELD
McKINLEY COUNTY, NM

SECTION 1T-17N-R9W



Wellbore Schematic
Plugged & Abandoned Well
American Exploration
Santa Fe R.R. #46
South Hospah Field
McKinley County, New Mexico

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE