



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 dark ink, appearing to read "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 PHX _____

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, BLM

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		LOCATION	WELL STATUS	DATE DRILLED M/Y	TOTAL DEPTH, FT.	CASING DATA		CEMENT DATA			PRODUCING		PACKER DEPTH FT.
WELL #						SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	HOW DETERMINED	INTERVAL FT.	PRODUCING FORMATION	
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 FEL & 1620 FSL						5-1/2	1690	140	780	Calc.			
Santa Fe RR #72		1-17N-9W	P	11/66	1631	7	77	35	0	Circ.	1608-31	L.Hospah	
1250 FEL & 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 FEL						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 FEL						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 FEL						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 FEL						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 FEL						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 FEL						5-1/2	1581	50	1300	Calc.			

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	TOTAL DEPTH, FT.	CASING DATA		CEMENT DATA			PRODUCING		PACKER								
															SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	HOW DETERMINED	INTERVAL FT.	PRODUCING FORMATION	DEPTH FT.
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									

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		LOCATION	WELL STATUS	DATE		TOTAL DEPTH, FT.	CASING DATA		CEMENT DATA			HOW DETERMINED	PRODUCING		PACKER DEPTH FT.
WELL #				DRILLED M/Y			SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	INTERVAL FT.		PRODUCING FORMATION		
American Exploration Section 1															
Santa Fe RR #91		1-17N-9W	P	8/81	1682	8-5/8	43	30	0		Circ.	1580-1614	U. Hospah		
705 FSL & 1650 FEL						5-1/2	1676	80	1275		Calc.				
Santa Fe RR #92		1-17N-9W	P&A	4/82	1864	8-5/8	43	30	0		Circ.				
1060 FSL & 1550 FEL															
Santa Fe RR #93		1-17N-9W	P	9/81	1620	8-5/8	38	30	0		Circ.	1518-50	U. Hospah		
660 FSL & 375 FEL						5-1/2	1619	80	1220		Calc.				
Santa Fe RR #94		1-17N-9W	P	8/81	1700	8-5/8	38	30	0		Circ.	1618-52	L. Hospah		
810 FSL & 1550 FEL						5-1/2	1688	80	1300		Calc.				
Santa Fe RR #95		1-17N-9W	P	11/81	1640	8-5/8	44	30	0		Circ.	1552-62	L. Hospah		
1450 FSL & 400 FEL						5-1/2	1634	80	1200		Calc.				
Santa Fe RR #96		1-17N-9W	P	7/82	1682	8-5/8	42	30	0		Circ.	1623-62	L. Hospah		
730 FSL & 1860 FEL						5-1/2	1682	100	1200		Calc.				
Santa Fe RR #97		1-17N-9W	Inj	2/84		8-5/8	83	60				1618-28	U. Hospah	1603	
240 FSL & 1655 FEL						5-1/2	1682	150							
American Exploration Section 6															
Hanson Lease #2		6-17N-8W	P	10/65	1569	8-5/8	40	40	0		Circ.	1515-36	U. Hospah		
794 FSL & 576 FWL						4-1/2	1544	100	1000		Calc.				

07-Nov-89

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

OPERATOR WELL #	LOCATION	WELL STATUS	DATE DRILLED M/Y	TOTAL DEPTH, FT.	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	1588	8-5/8	64	40 ✓	0	Circ.	1551-88	L.Hospah	
					5-1/2	1551	60	1195	Calc.			
Hanson Lease #8 330 FSL & 330 FWL	6-17N-8W	P	9/67	1602	8-5/8	65	40 ✓	0	Circ.	1565-1602	L.Hospah	
					5-1/2	1565	60	1290	Calc.			
Hanson Lease #15 730 FSL & 720 FWL	6-17N-8W	P	5/70	1578	8-5/8	73	60 ✓	0	Circ.	1517-78	U.Hospah	
					5-1/2	1517	100					
Hanson Lease #18 5 FSL & 20 FWL	6-17N-8W	Inj	6/70	1566	8-5/8	74	60 ✓	0	Circ.	1518-54	U.Hospah	1466
					4-1/2	1564	120					
Hanson Lease #41 660 FSL & 330 FWL	6-17N-8W	P	10/83		8-5/8	82	60 ✓			1564-82	L.Hospah	
					5-1/2	1636	125					
Hanson Lease #43 1325 FSL & 100 FWL	6-17N-8W	Inj	7/84		8-5/8	84	60 ✓			1524-40	L.Hospah	1524
					4-1/2	1608	100					
American Exploration Section 7												
Santa Fe RR #3 660 FWL & 660 FWL	7-17N-8W	P	3/67	1572	8-5/8	37	7 ✓	0	Circ.	1568-84	L.Hospah	
					4-1/2	1547	75					
Santa Fe RR #7 1650 FWL & 330 FWL	7-17N-8W	P	12/65	1587	8-5/8	24	10 ✓	0	Circ.	1606-13	L.Hospah	
					4-1/2	1582	100					

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	TOTAL DEPTH, FT.	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 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	
					5-1/2	1553	60	1200	Calc.			
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	
					5-1/2	1568	60	1250	Calc.			
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	
					5-1/2	1554	60	1250	Calc.			
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	
					5-1/2	1615	60	1300	Calc.			
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	
					5-1/2	1517	100	1200	Calc.			
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	
					5-1/2	1579	100	1200	Calc.			
Santa Fe RR #22 1200 FNL & 65 FNL	7-17N-8W	Inj	7/70	1564	7	59	40 ✓	0	Circ.	1532-68	U.Hospah	1488
					4-1/2	1563	65	850	Calc.			
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	
					5-1/2	1648	100	500	Calc.			
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	
					5-1/2	1647	100	500	Calc.			

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	TOTAL DEPTH, FT.	CASING DATA			CEMENT DATA			HOW DETERMINED	PRODUCING INTERVAL FT.	PRODUCING FORMATION	PACKER DEPTH FT.
					SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	FT					
American Exploration Section 7														
Santa Fe RR #41 1000 FNL & 1000 FNL	7-17N-8W	P	3/80	1650	8-5/8	53	35	0	✓	Circ.	1591-1611	L.Hospah		
					5-1/2	1640	120	1100		Calc.				
Santa Fe RR #47 1200 FNL & 550 FNL	7-17N-8W	P	2/83	1625	8-5/8	39	30	0	✓	Circ.	1586-96	L.Hospah		
					5-1/2	1624	100	950		Calc.				
Santa Fe RR #48 2410 FNL & 410 FNL	7-17N-8W	P	2/83	1665	8-5/8	39	30	0	✓	Circ.	1630-46	L.Hospah		
					5-1/2	1664	100	700		Calc.				
Santa Fe RR #50 1980 FNL & 100 FNL	7-17N-8W	P	2/84		8-5/8	82	60		✓		1564-82	L.Hospah		
					5-1/2	1636	125							
CITATION OIL & GAS SECTION 12														
SOUTH HOSPAH #1x 1980 FNL & 2062 FEL	12-17N-9W	P	4/65	1565	7-7/8	31	10	0	✓	Circ.	1522-62	U.Hospah		
					4-1/2	1505	75	900		Calc.				
SOUTH HOSPAH #2 2310 FNL & 2310 FNL	12-17N-9W	P	3/65	1637	7	31	10	0	✓	Circ.	1558-96	U.Hospah		
					4-1/2	1635	60	950		Calc.				
SOUTH HOSPAH #3 1650 FNL & 1392 FEL	12-17N-9W	P	9/65	1603	7	31	10	0	✓	Circ.	1584-90	L.Hospah		
					4-1/2	1602	60							
SOUTH HOSPAH #4 990 FNL & 2310 FNL	12-17N-9W	P	9/65	1640	7	30	10	0	✓	Circ.	1551-98	U.Hospah		
					4-1/2	1628	60	950		Calc.				

07-Nov-89

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

OPERATOR WELL #	LOCATION	WELL STATUS	DATE DRILLED M/Y	TOTAL DEPTH, FT.	CASING DATA		CEMENT DATA			HOW DETERMINED	PRODUCING INTERVAL FT.	PRODUCING FORMATION	PACKER DEPTH FT.
					SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT					
CITATION OIL & GAS SECTION 12													
SOUTH HOSPAN #5 990 FNL & 2712 FEL	12-17N-9W	Inj	9/65	1645	7	30	10	✓	0	Circ.	1534-92	U.Hospah	1500
					4-1/2	1644	60		955	Calc.			
SOUTH HOSPAN #6 330 FNL & 330 FEL	12-17N-9W	P	6/67	1710	10-3/4	45	50	✓	0	Circ.	1582-1600	L.Hospah	
					7	1694	75						
SOUTH HOSPAN #7 1650 FNL & 330 FEL	12-17N-9W	P	8/67	1750	10-3/4	45	75	✓	0	Circ.	1611-26	L.Hospah	
					7	1713	130						
SOUTH HOSPAN #8 1650 FNL & 2051 FEL	12-17N-9W	P	9/69	1709	10-3/4	55	50	✓	0	Circ.	1613-18	L.Hospah	
					7	1687	110						
SOUTH HOSPAN #9 330 FNL & 2051 FEL	12-17N-9W	P	4/67	3890	10-3/4	86	150	✓	0	Circ.	1630-52	L.Hospah	
					7	3933	670		500	CBL			
SOUTH HOSPAN #10 990 FNL & 2300 FNL	12-17N-9W	P	4/67	2827	10-3/4	85	150	✓	0	Circ.	1632-62	L.Hospah	
					7	2827	380						
SOUTH HOSPAN #11 1650 FNL & 2310 FNL	12-17N-9W	P	6/67	1774	10-3/4	45	50	✓	0	Circ.	1636-66	L.Hospah	
					7	1766	130						
SOUTH HOSPAN #16 1775 FNL & 2330 FNL	12-17N-9W	P	3/68	1710	7-5/8	59	50	✓	0	Circ.	1587-1608	U.Hospah	
					4-1/2	1692	200		0	Circ.			
SOUTH HOSPAN #17 2250 FNL & 3000 FNL	12-17N-9W	Inj	6/68	1787	7-5/8	59	50	✓	0	Circ.	1566-93	U.Hospah	1526
					4-1/2	1691	200		0	Circ.			

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		DATE		TOTAL		CASING DATA			CEMENT DATA			PRODUCING		PRODUCING		PACKER	
WELL #	LOCATION	WELL STATUS	DRILLED M/Y	DEPTH, FT.	SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT	HOW DETERMINED	INTERVAL FT.	FORMATION	DEPTH FT.					
CITATION OIL & GAS SECTION 12																	

SOUTH HOSPAH #18	12-17N-9W	Inj	3/68	1750	7-5/8	59	50	✓	0	Circ.	1554-96	U.Hospah	1484				
1475 FNL & 3055 FNL					4-1/2	1729	200		0	Circ.							
SOUTH HOSPAH #20	12-17N-9W	Inj	1/69	1595	4-1/2	1647	60	✓									
2310 FSL & 1392 FEL																	
SOUTH HOSPAH #24	12-17N-9W	P	9/69	1711	8-5/8	51	40	✓	0	Circ.	1642-55	L.Hospah					
330 FNL & 2650 FEL					4-1/2	1720	190		0	Circ.							
SOUTH HOSPAH #25	12-17N-9W	P	3/69	1702	8-5/8	51	40	✓	0	Circ.	1610-30	L.Hospah					
330 FNL & 1505 FEL					4-1/2	1683	240		0	Circ.							
SOUTH HOSPAH #26	12-17N-9W	P	3/69	1660	8-5/8	50	40	✓	0	Circ.	1522-56	U.Hospah					
330 FNL & 380 FEL					4-1/2	1683	240		0	Circ.							
SOUTH HOSPAH #27	12-17N-9W	P	3/69	1669	8-5/8	50	40	✓	0	Circ.	1548-77	U.Hospah					
1570 FNL & 330 FEL					4-1/2	1652	240		0	Circ.							
SOUTH HOSPAH #28	12-17N-9W	P	6/69	1675	8-5/8	51	40	✓	0	Circ.	1549-81	U.Hospah					
933 FNL & 1485 FEL					4-1/2	1658	240		0	Circ.							
SOUTH HOSPAH #29	12-17N-9W	P	9/69	1606	8-5/8	75	70	✓	0	Circ.	1554-81	U.Hospah					
410 FNL & 1870 FEL					5-1/2	1606	85		1054	Calc.							
SOUTH HOSPAH #30	12-17N-9W	P	9/69	1605	8-5/8	71	70	✓	0	Circ.	1555-88	U.Hospah					
950 FNL & 1980 FEL					5-1/2	1605	85		1055	Calc.							

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

[illegible]

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

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

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	TOTAL DEPTH, FT.	CASING DATA			CEMENT DATA			PRODUCING INTERVAL FT.	PRODUCING FORMATION	PACKER 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	Circ.	1566-96	U.Hospah	1520
					5-1/2	1657	225		900	Calc.	1667-97	L.Hospah	1620
SOUTH HOSPAH #60 2210 FNL & 1200 FEL	12-17N-9W	Inj	7/74	1646	8-5/8	88	75	✓	0	Circ.	1617-27	L.Hospah	1565
					5-1/2	1648	225		900	Calc.			
SOUTH HOSPAH #61 1120 FNL & 2510 FEL	12-17N-9W	P	11/78	1715	9-5/8	87	90	✓	0	Circ.	1620-32	L.Hospah	
					7	1715	375		0	Circ.			
SOUTH HOSPAH #62 650 FNL & 1770 FEL	12-17N-9W	P	11/78	1710	9-5/8	93	90	✓	0	Circ.	1614-42	L.Hospah	
					7	1710	375		0	Circ.			
SOUTH HOSPAH #63 710 FNL & 1325 FEL	12-17N-9W	P	12/78	1695	9-5/8	94	90	✓	0	Circ.	1598-1614	L.Hospah	
					7	1690	375		0	Circ.			
SOUTH HOSPAH #64 1360 FNL & 900 FEL	12-17N-9W	P	12/78	1685	9-5/8	90	90	✓	0	Circ.	1590-1605	L.Hospah	
					7	1680	375		0	Circ.			
SOUTH HOSPAH #65 1418 FNL & 2769 FEL	12-17N-9W	P	2/82	1715	13-3/8	133	175	✓	0	Circ.	1554-93	U.Hospah	
					8-5/8	1715	400		0	Circ.			
SOUTH HOSPAH #66 1646 FNL & 2667 FEL	12-17N-9W	P	12/81	1715	13-3/8	160	175	✓	0	Circ.	1569-98	U.Hospah	
					8-5/8	1715	150		0	Circ.			
Hospah Core Hole #1 1477FNL & 2942 FEL	12-17N-9W	P&A	7/81	1719	9-5/8	127	100		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 DRILLED M/Y	TOTAL DEPTH, FT.	CASING DATA		CEMENT DATA		PRODUCING INTERVAL FT.	PRODUCING FORMATION	PACKER DEPTH FT.
					SIZE, IN	DEPTH, FT	SACKS USED	TOP, FT			
CITATION OIL & GAS SECTION 12											
Hospah Core Hole #2 1522 FNL & 2695 FEL	12-17N-9W	P&A	7/81	1742	9-5/8	128	80	0		Circ.	



May 2, 1989

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

*Recd
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.

New Mexico Oil & Gas Commission
Re: Conversion Lower Hospah #63
Page Two

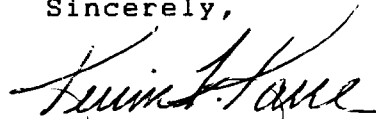
Listed below are, as we understand, the specific order number with its' corresponding injection well. This information is provided in lieu of resubmitting previously submitted information.

<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 <i>ok</i>
Tenneco	R-3957	41, 42 <i>ok</i>
Tenneco	R-3848	23 <i>ok</i>
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- # 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.

DATE: May 3, 1989

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

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

PAY ZONES

Name	Lower Hospah			
Top	1597			
Base	1619			
Net Pay	22			

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

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

REASON FOR REMEDIAL WORK: Convert to Lower WIW

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.

1598'
4SPF
1614'

LOWER
HOSPAN

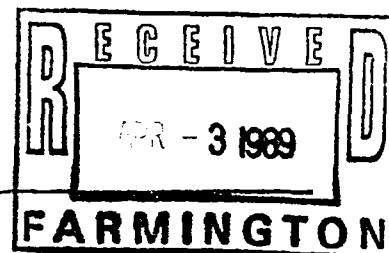
PBTD
@ 1647'

1690'

ATTACHMENT IV

PROPOSED INJECTION OPERATIONS
FOR LOWER HOSPAH 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

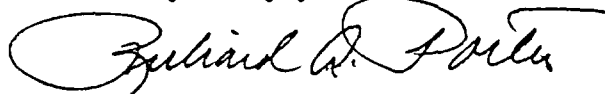
March 29, 1989

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,

A handwritten signature in dark ink, appearing to read "Richard A. Porter". The signature is fluid and cursive, with a large loop at the beginning and end.

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 the3rd day of May, 19 89 thesecond publication being on the 4th day ofMay, 19 89 the third publicationon 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 ofMayAD. 19 89

Terisha Kay Delaney
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 producing well to an injection well in Citation's Lower Ranch Waterflood. The contact for Citation is Kevin Kama, Area Engineer. He can be contacted at (505) 297-0000. The well to be converted to injection is the:

[Signature]
Sec. 12, T12N, R5W

Citation plans continuous injection into the Lower Ranch formation at an average depth of 10,000 feet. Citation plans a maximum daily injection rate of 2,000 bbls of water per acre foot of reservoir. If any interested party located within these locations has any objections to the proceeding action, please submit the Oil Conservation Division, P.O. Box 288, Santa Fe, New Mexico 87501 within 10 days.

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.

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.

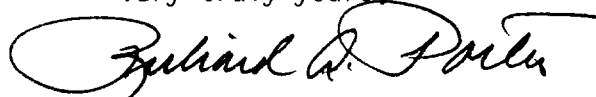
Mr. David Catanac
Page 2
March 29, 1989

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,

A handwritten signature in black ink, reading "Richard A. Porter". The signature is fluid and cursive, with a large, looping initial "R".

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






STENNECO

SOUTH

HOSPAH

SAND

UNIT

-  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.

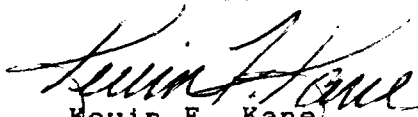
As per the attached documentation, it has been determined that the 5-1/2" production casing in this well has satisfactory pressure integrity above the current packer setting point of 1552'.

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,


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.

MODEL
AO-1 PKR
@1552'

OLD
UPPER
HOSPAN
PERMS
SQUEEZE
5/85 1596

1621'

LOWER
HOSPAN

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

2 7/8" 750'



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>	UIC <u>6.5</u>
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION
PERFORMED

INSPECTION
CLASSIFICATION

NATURE OF SPECIFIC WELL
OR FACILITY INSPECTED

H - Housekeeping
P - Plugging
C - Flushing Cleanup
T - Well Test
R - Repair/Alteration
I - Waterflow
H - Blowout/Spill
K - Water Contamination
O - Other

U - Underground Injection Control - any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, daily injection and production wells, water flows, or pressure tests, surface injection equipment, plugging, etc.)
R - Inspections relating to Reclamation Fund Activity
O - Other - Inspections not related to injection or the reclamation fund

D - Drilling
P - Production
I - Injection
C - Combined production/Injection operations
S - SWD
U - Underground Storage
G - General Operation
F - Facility or Location
H - Hoisting

Affidavit of Publication

STATE OF NEW MEXICO,

) ss

COUNTY OF MCKINLEY

Norma L. Toledo

being duly sworn upon

oath, deposes and says:

Legal Clerk

As

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. Delano
Notary Public.

My commission expires

8-29-89

LEGAL NOTICE

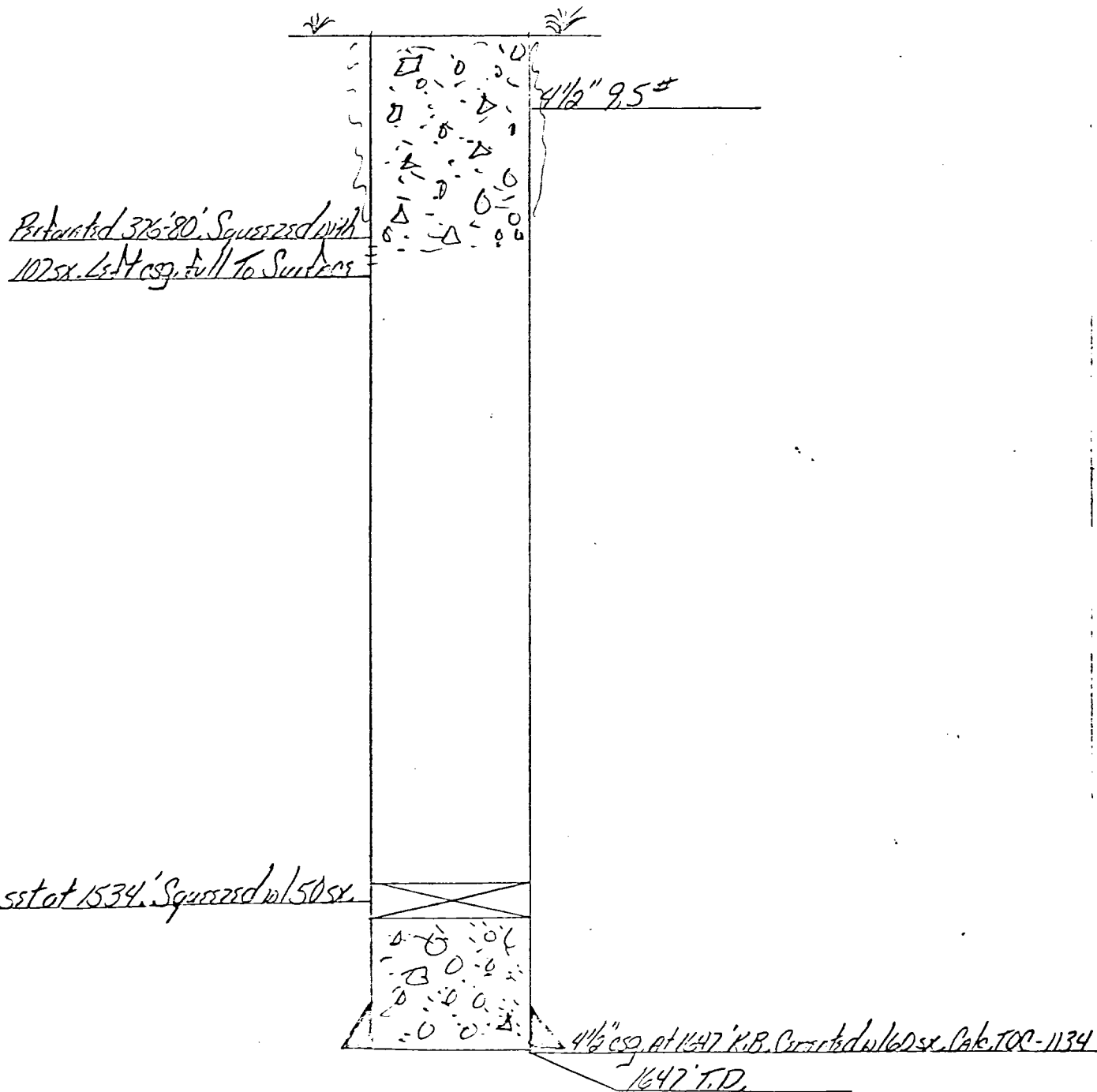
Citation Oil & Gas Corp., P.O. Box 2487, Farmington, New Mexico 87400, is applying to the Oil and Gas Conservation Commission for Authorization to convert a producing oil well to an injection well in Citation's Lower Hoshpah Waterflood. The contact for Citation is Kevin Kane, Area Engineer. He can be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

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

Citation plans continuous injection into the Lower Hoshpah 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 2088, Santa Fe, New Mexico 87501, within 15 days.

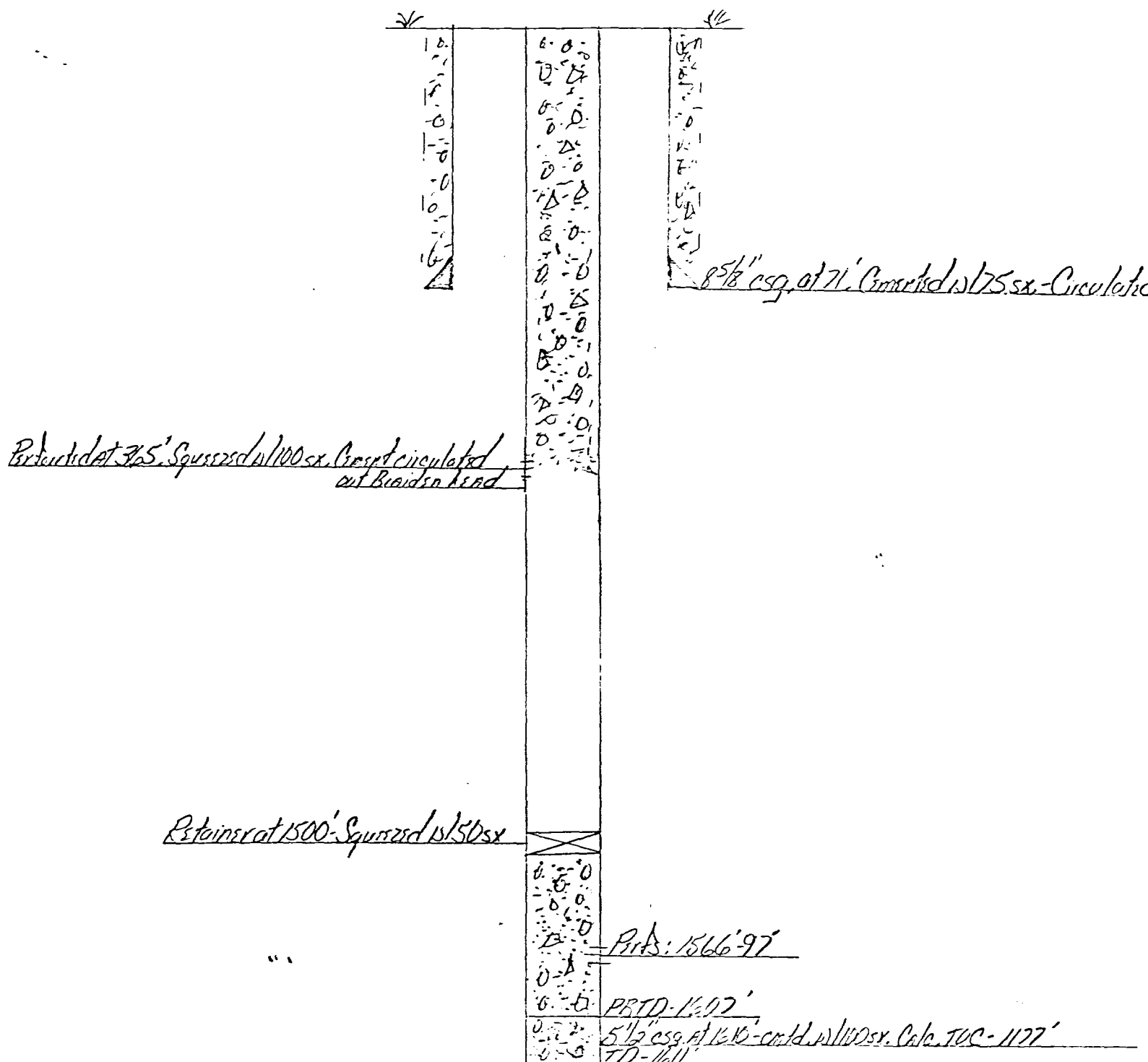
Legal # 3926 Published in The Gallup Independent May 3, 4, 5, 1989.

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



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-R9W

20-SK CMT. 771' 0.0 0.0 0.0 0.0
PLUG TO 50'

9 5/8" CSG @ 127'
CMTD W/100 SX

20-SK CMT
PLUG 350'-400'

31-SK CMT
PLUG 470'-570'

60-SK CMT
PLUG 1500'-1719'

1600'
1719' TD

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 & 2495' 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

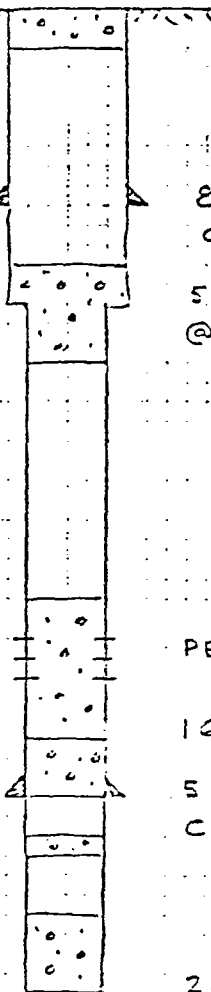
2330' FEL & 1620' FSL
SEC 1-T17N-R9W

10 SK SURF. PLUG

30 SX CMT
745'-883'

15 SX CMT
1513'-1644' GL
1521'-1652' KB

15 SX CMT
1750'-1800'



8 5/8" CSG @ 135' KB
CMTD W/110 SX

5 1/2" CSG SHOT OFF
@ 822'

PERF. 1625-34 KB

1652' FETD

5 1/2" CSG @ 1698' KB
CMTD W/140 SX

2800' KB TD

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

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

20-SK CMT
PLUG 0'-60'

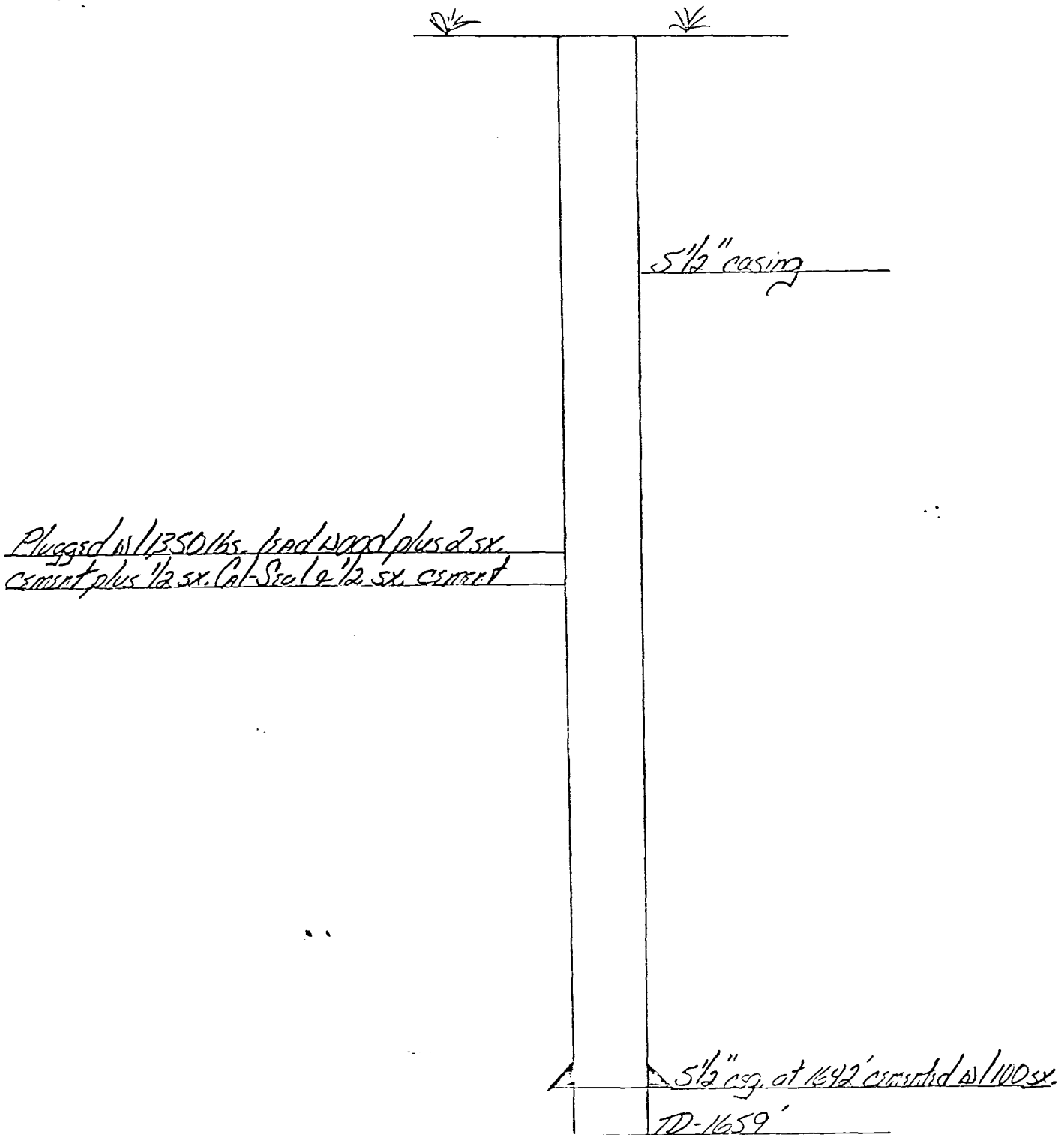
8 5/8" CSG @ 43'
CMTD W/ 30 SX

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