

TESORO PETROLEUM CORPORATION

Suite 2000 First of Denver Plaza Building

633 Seventeenth Street

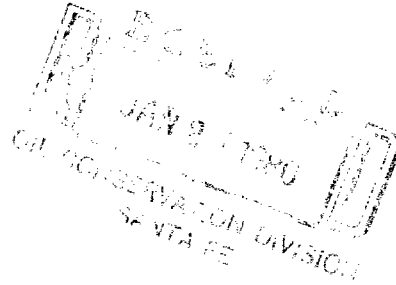
DENVER, COLORADO 80202

Rocky Mountain District

(303) - 825 2000

January 22, 1980

N.M. Oil Conservation Division
P.O. Box 2088
Santa Fe, N.M. 87501



ATTN: Mr. Mike Holland

Re: Case #4273 - Order #R-2807-B
Drill Two Additional Hospah
Sand Unit Injection Wells -
Upper Sand Waterflood

Gentlemen:

Tesoro Petroleum Corp. requests administrative approval to drill two additional Upper Hospah Sand water injection wells, in accordance with Order # R-2807-B. Produced Upper Hospah water will be injected into the following two wells:

Hospah Sand Unit #87: 925' FNL & 2290' FEL, Sec. 1-17N-9W
Hospah Sand Unit #88: 1260' FSL & 2020' FEL, Sec. 36-18N-9W

The following data is submitted in support of this application as specified by Order # R-2807-B:

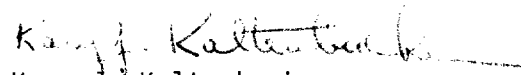
1. A plat showing the location of proposed injection wells, and all wells within the project area. There are no offset operators.
2. Schematic drawings of the two proposed injection wells which describe the casing, tubing, perforated interval and depth showing that the injection of water will be confined to the Upper Hospah Sand.
3. A tabular summary of all wells within one-half mile of the proposed injection wells which penetrate the injection zone showing all csg. strings, setting depths, sacks of cement used, cement tops, total depth, producing interval, well identification and location.

January 22, 1980

4. Schematic drawings of all plugged and abandoned wells within the one-half mile radius showing all information as in No. 3 plus the size and location of all plugs and date of abandonment.

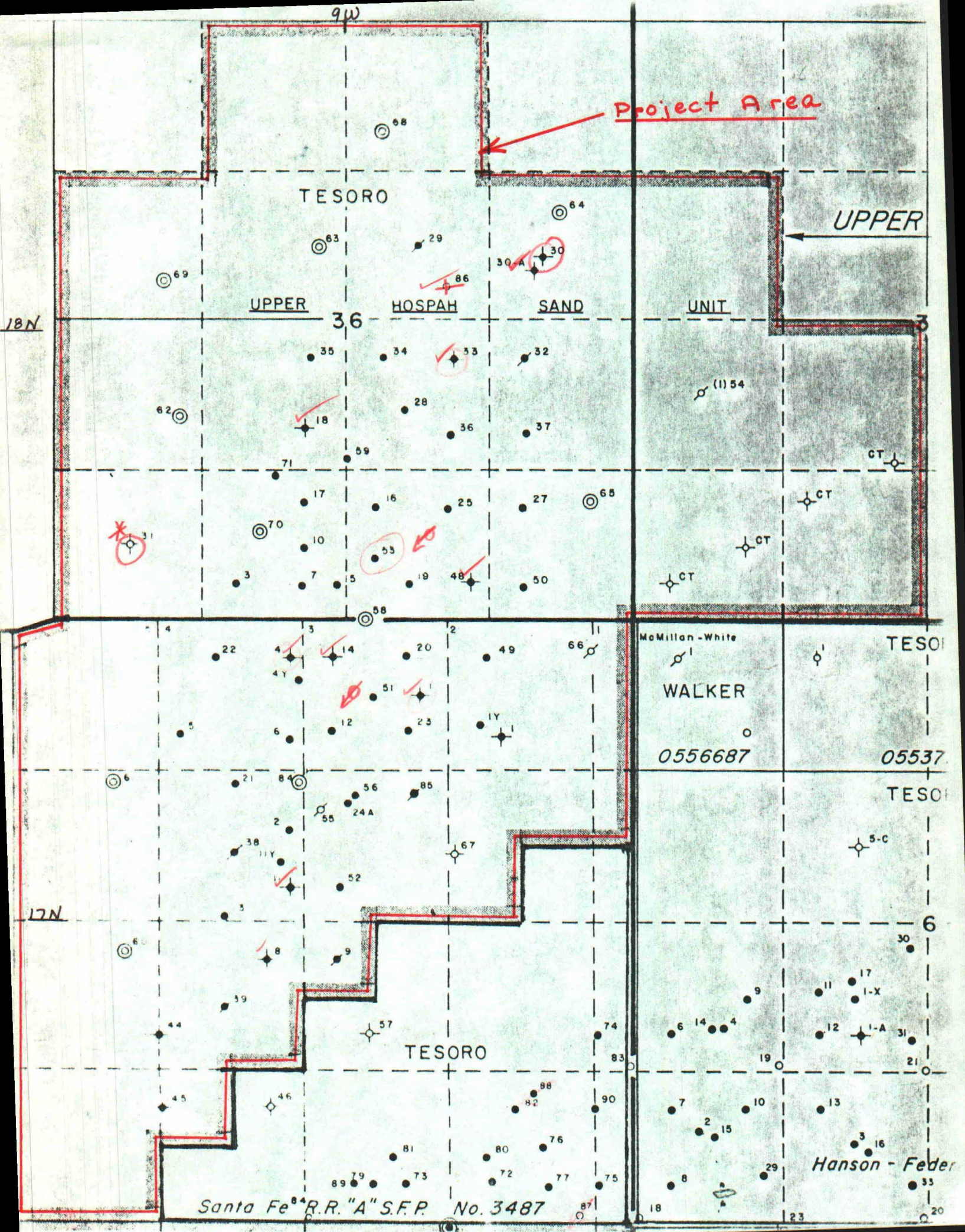
Tesoro Petroleum Corp. requests your early consideration and approval of this application. If any additional information is needed, please contact me.

Very truly yours,



Kary J. Kaltenbacher
District Engineer

KJK:c1
Encl.



Well: Hospah Sand Unit # 87
Field: Hospah
Location: NW / NE Sec 1 -T 17N -R 9W
County: McKinley State: N.M.
Zero Elevation: 6940 ft. (10' AGL) GL: 6930'
TD: 1600' ft. PBD: _____ ft.

Wellhead: _____

Tubing String: _____

Centralizers: _____

8 5/8" OD 24 LB K GR. 8 Rd. THRD.
@ 50 FT. w/ 25 SX (____ FT³) cmt.
in 12 1/4" hole (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ surface BY: circ.

← 2 3/8", 4.7#, J-55, +bg.

⊗ ⊗ Baker Model AD-1 Packer set @ 1500'

⊗ ⊗ Perforate U. Hospah @ 1535'-45' w/ 2 JSPF

5 1/2" OD 14 LB K GR 8 Rd. THRD.
@ 1600 FT. w/ 125 SX (____ FT³) cmt.
in 7 7/8" HOLE (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ 1100' BY: _____

Proposed Injection Well
(All depths approximate)

UPDATED BY: K.J.K. DATE: 1/21/80

Well: Hospah Sand Unit #88
Field: Hospah
Location: SW / SE Sec 36 -T 18N -R 9W
County: McKinley State: N.M.
Zero Elevation: 7041 ft. (10 AGL) GL: 7031
TD: 1700' ft. PBD: _____ ft.

Wellhead: _____

Tubing String: _____

Centralizers: _____

8 5/8" OD 24 LB K GR: ORD. THRD.
@ 50 FT. w/ 25 SX (_____ FT³) cmt.
in 12 1/4" hole (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ surface BY: circ.

2 3/8" 4.7#, J-55, +bg.

Baker Model AD-1 Packer @ 1640'

Perforate U. Hospah @ 1666'-76' w/ 2JS PF

5 1/2" OD 14 LB K GR ORD THRD.
@ 1700 FT. w/ 125 SX (_____ FT³) cmt.
in 7 7/8" HOLE (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ 1100' BY: _____

TD-1700'

Proposed Injection Well
(all depths approximate)

UPDATED BY: K.J.K. DATE: 1/21/00

F : H 07/53

Well: Santa Fe Hurst #1

Field: Hospah

Location: NW / NE Sec 1 -T 17N -R 9W

County: McKinley State: N. M.

Zero Elevation: _____ ft. (_____ AGL) GL: _____

TD: 2852 ft. PBD: _____ ft.

Wellhead: _____

Tubing String: _____

Centralizers: _____

13 3/8" OD LB _____ GR. _____ THRD. _____
@ 207 FT. w/ 150 SX (_____ FT³) cmt.
in 17 1/2" hole (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ surface BY: _____

9 5/8" OD LB _____ GR _____ THRD. _____
@ 3317 FT. w/ 325 SX (_____ FT³) cmt.
in 12 1/4" HOLE (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ 2400' BY: _____

10 SK cement plug: 3314' - 3280'

10 SK cement plug: 3750' - 3720'

10 SK cement plug: 4800' - 4770'

10 SK cement plug: 5100' - 5070'

10 SK cement plug: 5500' - 4970'

10 SK cement plug: 7050' - 7020'

TD-7852'

UPDATED BY: K.I.K. DATE: 1/21/80

P. & A. - 9/14/71

Well: Hospah Sand Unit #1
Field: Hospah
Location: NE 1/4 NE Sec 1 -T 17N -R 9W
County: McKinley State: N.M.
Zero Elevation: ft. (AGL) GL: ft.
TD: 1610' ft. PBD: ft.

10' cement plug @
top of csg.

Wellhead: _____

Tubing String: _____

Centralizers: _____

← No surface casing

"OD LB GR THRD.
@ _____ FT. w/ _____ SX (_____ FT³) cmt.
in _____ " hole (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ _____ BY: _____

Perforated @ 560'. Squeezed w/ 95 sx cement.
Cement Top inside csg. is 241'.

25 sx. cement plug: 1610' - 1364'

5 3/16 "OD LB GR THRD.
@ 1557 FT. w/ 75 SX (_____ FT³) cmt.
in _____ " HOLE (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ 1250' BY: _____

TD-1610'

UPDATED BY: K.T.K. DATE: 1/21/80

P: A - 9/14/71

Well: Hospah Sand Unit #4

Field: Hospah

Location: NE 1 NW Sec 1 -T 17N -R 9W

County: McKinley State: N.M.

Zero Elevation: _____ ft. (_____ AGL) GL: _____

TD: 1611 ft. PBTD: _____ ft.

10' cement plug @
top of csg.

Wellhead: _____

Tubing String: _____

Centralizers: _____

← No Surface Casing

_____ "OD _____ LB _____ GR. _____ THRD.
@ _____ FT. w/ _____ SX (_____ FT³) cmt.
in _____ " hole (CMT. CLASS-ADDITIVES: _____)

T.O.C. @ _____ BY: _____

Perforated @ 499' Squeezed w/ 80 sx cement.
Cement Top inside csg. @ 277'

← 25 sk. cement plug: 1610' - 1481'

_____ "OD _____ LB _____ GR. _____ THRD.
@ 1611 FT. w/ 70 SX (_____ FT³) cmt.
in 9 7/8 " HOLE (CMT. CLASS-ADDITIVES: _____)

T.O.C. @ 1400' BY: _____

TD - 1611'

UPDATED BY: K.J.K DATE: 1/21/80

P & A 8/7/69

Well: Hospah Sand Unit # 8

Field: Hospah

Location: NE 1 SW Sec 1 -T 17N -R 9W

County: McKinley State: N. M.

Zero Elevation: ft. (AGL) GL: ft.

TD: 1578' ft. PBD: ft.

Wellhead: _____

Tubing String: _____

Centralizers: _____

12 1/2 "OD LB GR. THRD.
@ 22' FT. w/ 10 SX (FT³) cmt.
in 15 " hole (CMT. CLASS-ADDITIVES:

T.O.C. @ surface BY: _____

Perforated @ 570'. Squeezed w/ 130SX cement.
Cement Top inside 7" csg. is 300'

30 sk. cement Plug: 1578'-1450'

7 "OD 20 LB GR THRD.
@ 1533 FT. w/ 50 SX (FT³) cmt.
in 9 7/8 " HOLE (CMT. CLASS-ADDITIVES:

T.O.C. @ 1300' BY: _____

TD-1578'

UPDATED BY: KJK DATE: 1/21/80

P: A - 1/14/71

Well: Hospah Sand Unit # 11

Field: Hospah

Location: SE / NW Sec 1 -T 17N -R 9W

County: McKinley State: N.M.

Zero Elevation: ft. (AGL) GL: ft.

TD: 1550 ft. PBD: ft.

Wellhead: _____

Tubing String: _____

Centralizers: _____

12 "OD LB GR THRD.
@ 22 FT. w/ 12 SX (FT³) cmt.
in 15 " hole (CMT. CLASS-ADDITIVES: _____)

T.O.C. @ surface BY: _____

Perforated @ 430'. Squeezed w/ 80 sx cement
Cement Top inside 7" csg. is 277'

25 sk cement plug: 1550' - 1416'

7 "OD LB GR THRD.
@ 1522 FT. w/ 50 SX (FT³) cmt.
in 9 7/8 " HOLE (CMT. CLASS-ADDITIVES: _____)

T.O.C. @ 1280' BY: _____

TD-1550'

UPDATED BY: KJK DATE: 1/21/80

P: A - 9/14/71

Well: Hospah Sand Unit #14

Field: Hospah

Location: NW / NE Sec 1 -T 17N -R 9W

County: McKinley State: N. M.

Zero Elevation: Ft. (AGL) GL:

TD: 1609 ft. PBD: ft.

Wellhead:

Tubing String:

Centralizers:

← No surface Casing

"OD LB GR. THRD.
@ FT. w/ SX (FT³) cmt.
in " hole (CMT. CLASS-ADDITIVES:)

T.O.C. @ BY:

Perforated @ 585' squeezed w/ 80 sx cement.
Left 2 7/8" tbg. full of cement

← 2 7/8" tbg. set @ 1551 w/ 125 sx cement. Cement Top: surface.

← 25 sk. cement plug: 1609' - 868'

6 5/8" OD LB GR THRD.
@ 1562 FT. w/ 100 SX (FT³) cmt.
in 9 7/8 " HOLE (CMT. CLASS-ADDITIVES:)

T.O.C. @ 1150 BY:

TD- 1609'

UPDATED BY: K.J.K. DATE: 1/21/80

P: A - 10/9/67

Well: Hospah Sand Unit # 1B

Field: Hospah

Location: NE 1 SW Sec 36 -T 18N -R 9W

County: McKinley State: N. m.

Zero Elevation: _____ ft. (_____ AGL) GL: _____

TD: 1710' ft. PBTD: _____ ft.

10' cement plug @
top of csg.

Wellhead: _____

Tubing String: _____

Centralizers: _____

← No Surface Csg.

@ _____ "OD _____ LB _____ GR. _____ THRD.
_____ FT. w/ _____ SX (_____ FT³) cmt.
in _____ " hole (CMT. CLASS-ADDITIVES: _____)

T.O.C. @ _____ BY: _____

30 sx cement plug: 1710' - 1413'

7 "OD _____ LB _____ GR _____ THRD.
@ 1698 FT. w/ 50 SX (_____ FT³) cmt.
in _____ " HOLE (CMT. CLASS-ADDITIVES: _____)

T.O.C. @ 1330' BY: _____

5 3/16" Liner set @ 1705' to 1327' w/ 71 sx cement

TD-1710'

UPDATED BY: K. J. K. DATE: 1/21/80

P. & A.

Well: Hospah Sand Unit #30
Field: Hospah
Location: SE/NE Sec 36 -T 18N -R 9W
County: McKinley State: N.M.
Zero Elevation: ft. (AGL) GL: ft.
TD: 1801 ft. PBTB: ft.

Wellhead: _____

Tubing String: _____

Centralizers: _____

No Surface Csg.

"OD LB GR. THRD.
@ _____ FT. w/ _____ SX (_____ FT³) cmt.
in _____ " hole (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ _____ BY: _____

No plugging records available on this well
Well was drilled by Petroleum Products in 1942

5 1/2 "OD LB GR THRD.
@ 1779 FT. w/ 50 SX (_____ FT³) cmt.
in 2 3/8 " HOLE (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ 1430' BY: _____

TD-1801'

UPDATED BY: K.J.K. DATE: 1/21/80

P: A 1/30/70

5 sk. cement plug @
Top of csg.

Well: Hospah Sand Unit # 30-A

Field: Hospah

Location: SE / NE Sec 36 -T 18N -R 9W

County: McKinley State: N.M.

Zero Elevation: ft. (AGL) GL:

TD: 1781 ft. PBD: ft.

Wellhead:

Tubing String:

Centralizers:

← No Surface Csg

"OD LB GR THRD.
@ FT. w/ SX (FT³) cmt.
in " hole (CMT. CLASS-ADDITIVES:
T.O.C. @ BY:)

perforated @ 810' set cement retainer @ 555'.
squeezed w/ 75 sx. cement.

← Sand and Gravel Plug: 1629' - 1024'

← 20 sk. cement plug: 1781' - 1629'

5 3/8 "OD LB GR THRD.
@ 1760 FT. w/ 50 SX (FT³) cmt.
in 7 7/8 " HOLE (CMT. CLASS-ADDITIVES:
T.O.C. @ 1450' BY:)

TD-1781'

UPDATED BY: K. J. K. DATE: 1/21/80

P: A 11/10/42

Well: Hospah Sand Unit # 31
Field: Hospah
Location: SW / SW Sec 36 -T 18N -R 9W
County: McKinley State: N.M.
Zero Elevation: Ft. (AGL) GL:
TD: 1763' ft. PBTD: ft.

Wellhead:

Tubing String:

Centralizers:

No Surface Csg.

"OD LB GR THRD.
@ FT. w/ SX (FT³) cmt.
in " hole (CMT. CLASS-ADDITIVES:)
T.O.C. @ BY:

8 3/4" Hole

Hole Filled w/ 12 ppg mud

"OD LB GR THRD.
@ FT. w/ SX (FT³) cmt.
in " HOLE (CMT. CLASS-ADDITIVES:)
T.O.C. @ BY:

TD-1763'

UPDATED BY: K.J.K. DATE: 1/21/80

P & A - 1/30/70

Well: Hospah Sand Unit #33
Field: Hospah
Location: NW 1 SE Sec 36 - T 18 N - R 9 W
County: McKinley State: N.M.
Zero Elevation: ft. (AGL) GL: ft.
TD: 1790' ft. PBD: ft.

Wellhead: _____

Tubing String: _____

Centralizers: _____

← No Surface Csg.

"OD LB GR THRD.
@ FT. w/ SX (FT³) cmt.
in " hole (CMT. CLASS-ADDITIVES:
T.O.C. @ BY:)

← Sand and Gravel Plug: 1635' - 1001'

← 20 SK. Cement Plug: 1790' - 1635'

5 1/2 "OD LB GR THRD.
@ 1775 FT. w/ 150 SX (FT³) cmt.
in 2 7/8 " HOLE (CMT. CLASS-ADDITIVES:
T.O.C. @ 1020' BY:)

TD - 1790'

UPDATED BY: K. I. K. DATE: 1/21/80

P: A - 10/9/67

Well: Hospah Sand Unit # 48

Field: Hospah

Location: SW / SE Sec 36 -T 18N -R 9W

County: McKinlay State: N.M.

Zero Elevation: ft. (AGL) GL: ft.

TD: 1615 ft. PBD: ft.

10' cement plug @
top of csg.

Wellhead: _____

Tubing String: _____

Centralizers: _____

← No Surface Casing

_____ "OD _____ LB _____ GR. _____ THRD.
@ _____ FT. w/ _____ SX (_____ FT³) cmt.
in _____ " hole (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ _____ BY: _____

← 50 SK. Plug: 1615' - 1103'

_____ 5 1/2 "OD _____ LB _____ GR _____ THRD.
@ 1579 FT. w/ 25 SX (_____ FT³) cmt.
in 2 7/8 " HOLE (CMT. CLASS-ADDITIVES: _____)
T.O.C. @ 1110' BY: _____

TD-1615'

UPDATED BY: K. J. K. DATE: 1/21/80

P: A - 7/19/74

Well: Hospah Sand Unit # 86

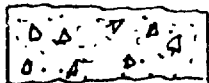
Field: Hospah

Location: SW/NE Sec 36 -T 18N -R 9W

County: McKinley State: N. M.

Zero Elevation: ft. (AGL) GL: ft.

TD: 2918 ft. PBTD: ft.



15 sk. cement plug
@ top of 8 5/8" csg.

Wellhead: _____

Tubing String: _____

Centralizers: _____

8 5/8" OD LB GR. THRD.
@ 150 FT. w/ 100 SX (FT³) cmt.
in 12 1/4" hole (CMT. CLASS-ADDITIVES: _____)

T.O.C. @ surface BY: _____

Set 25 sk. plug @ bottom of surface csg.: 150'-70'

Pulled 1350' of 5 1/2" csg.

Set 30 sk. cement plug on top of csg. stub: 1350'-1250'

30 sk. cement plug: 1860'-1700'

5 1/2" OD LB GR THRD.
@ 1860 FT. w/ 90 SX (FT³) cmt.
in 7 3/8" HOLE (CMT. CLASS-ADDITIVES: _____)

T.O.C. @ 1900' BY: _____

TD-2918'

UPDATED BY: K. J. K. DATE: 1/21/80

Wells Within 1/2 Mile of Proposed Injection Wells

<u>Operator</u>	<u>Well Name</u>	<u>Location</u>	<u>Casing Strings</u>	<u>Setting Depth</u>	<u>Cement Volume</u>	<u>Cement Top</u>	<u>Total Depth</u>	<u>Producing Interval</u>	<u>Producing Formation</u>
Tesoro	HSU #8	NE-SW Sec 1-17N-9W	12 1/2" 7"	22' 1533'	10 sx 50 sx	surface 1300'	1578'	P & A	--
Tesoro	HSU #9	NW-SE Sec 1-17N-9W	10" 7"	17' 1535'	10 sx 40 sx	surface 1350'	1570'	1535'-70'	U. Hospah
Tesoro	HSU #13	SE-NW Sec 1-17N-9W	10" 7"	22' 1530'	15 sx 50 sx	surface 1300'	1561'	1530'-61'	U. Hospah
Tesoro	HSU #11	SE-NW Sec 1-17N-9W	12" 7"	22' 1522'	12 sx 50 sx	surface 1280'	1550'	P & A	--
Tesoro	HSU #11-Y	SE-NW Sec 1-17N-9W	8 5/8" 5 1/2"	73' 1538'	60 sx 150 sx	surface 590'	1563'	1538'-63'	U. Hospah
Tesoro	HSU #38	SE-NW Sec 1-17N-9W	5 1/2"	1557'	50 sx	1250'	1565'	1557'-65'	U. Hospah
Tesoro	HSU #2	SE-NW Sec 1-17N-9W	8 5/8"	1528'	75 sx	1340'	1576'	1528'-76'	U. Hospah
Tesoro	HSU #21	SE-NW Sec 1-17N-9W	7"	1547'	40 sx	1360'	1591'	1547'-85'	U. Hospah
Tesoro	HSU #84	SE-NW Sec 1-17N-9W	8 5/8" 4 1/2"	70' 1536'	50 sx 120 sx	surface 879'	1574'	1536'-74'	U. Hospah (Injection Well)
Tesoro	HSU #61	SW-NW Sec 1-17N-9W	7" 4 1/2"	64' 1700'	35 sx 50 sx	surface 1220'	1715'	1632'-56'	U. Hospah (Injection Well)
Tesoro	HSU #56	SW-NE Sec 1-17N-9W	8 5/8" 5 1/2"	302' 1694'	200 sx 140 sx	surface 268'	2730'	1514'-42'	U. Hospah
Tesoro	HSU #24-A	SW-NE Sec 1-17N-9W	5 3/8"	1512'	75 sx	1190'	1552'	1512'-52'	U. Hospah
Tesoro	HSU #52	SW-NE Sec 1-17N-9W	7"	1514'	50 sx	1330'	1526'	1514'-26'	U. Hospah

Wells Within 1/2 Mile of Proposed Injection Wells

<u>Operator</u>	<u>Well Name</u>	<u>Location</u>	<u>Casing Strings</u>	<u>Setting Depth</u>	<u>Cement Volume</u>	<u>Cement Top</u>	<u>Total Depth</u>	<u>Producing Interval</u>	<u>Producing Formation</u>
Tesoro	HSU #85	SW-NE Sec 1-17N-9W	8 5/8" 5 1/2"	104' 1535'	100 sx 150 sx	surface 450'	1551'	1535'-51'	U. Hospah
Tesoro	HSU #67	SE-NE Sec 1-17N-9W	7" 4 1/2"	83' 1634'	35 sx 55 sx	surface 1150'	1636'	1546'-64' (Injection Well)	U. Hospah
Tesoro	HSU #1	NE-NE Sec 1-17N-9W	5 3/16"	1557'	75 sx	560'	1610'	P & A	--
Tesoro	HSU #1-Y	NE-NE Sec 1-17N-9W	8 5/8" 5 1/2"	72' 1588'	60 sx 100 sx	surface 960'	1613'	1588-1613'	U. Hospah
Tesoro	HSU #49	NE-NE Sec 1-17N-9W	5 1/2"	1560'	55 sx	1210'	1585'	1560'-85'	U. Hospah
Tesoro	HSU #66	NE-NE Sec 1-17N-9W	7" 4 1/2"	77' 1704'	35 sx 50 sx	surface 1230'	1701'	1616'-54'	U. Hospah
Tesoro	HSU #23	NW-NE Sec 1-17N-9W	5 3/8"	1528'	75 sx	1200'	1570'	1528'-70'	U. Hospah
Tesoro	SF Hurst #1	NW-NE Sec 1-17N-9W	13 3/8" 9 5/8"	207' 3317'	150 sx 325 sx	surface 2400'	7852'	P & A	--
Tesoro	HSU #20	NW-NE Sec 1-17N-9W	5 3/4" 4"	1553' 1553'	75 sx 20 sx	1200' 1080'	1601'	1553-1601'	U. Hospah
Tesoro	HSU #51	NW-NE Sec 1-17N-9W	7"	1532'	50 sx	1340'	1576'	1532'-76'	U. Hospah
Tesoro	HSU #12	NW-NE Sec 1-17N-9W	10" 7"	21' 1535'	12 sx 45 sx	surface 1320'	1580'	1535'-80'	U. Hospah
Tesoro	HSU #14	NW-NE Sec 1-17N-9W	6 5/8" 2 7/8"	1562' 1551'	100 sx 125 sx	1150' surface	1609'	P & A	--
Tesoro	HSU #4	NE-NW Sec 1-17N-9W	7"	1611'	70 sx	1400'	1611'	P & A	--

Wells Within 1/2 Mile of Proposed Injection Wells

<u>Operator</u>	<u>Well Name</u>	<u>Location</u>	<u>Casing Strings</u>	<u>Setting Depth</u>	<u>Cement Volume</u>	<u>Cement Top</u>	<u>Total Depth</u>	<u>Producing Interval</u>	<u>Producing Formation</u>
Tesoro	HSU #4Y	NE-NW Sec 1-17N-9W	8 5/8" 5 1/2"	74' 1556'	60 sx 150 sx	surface 620'	1581'	1556'-81'	U. Hospah
Tesoro	HSU #6	NE-NW Sec 1-17N-9W	11" 7"	20' 1538'	155 sx 70 sx	surface 1230'	1582'	1538'-82'	U. Hospah
Tesoro	HSU #22	NE-NW Sec 1-17N-9W	7"	1553'	41 sx	1360'	1595'	1553'-95'	U. Hospah
Tesoro	HSU #5	NE-NW Sec 1-17N-9W	14" 6 5/8"	80' 1604'	16 sx 75 sx	50' 1300'	1604'	1552'-65'	U. Hospah
Tesoro	HSU #58	NW-NE Sec 1-17N-9W	8 5/8" 4 1/2"	70' 1582'	50 sx 180 sx	surface 883'	1631'	1582-1631'	U. Hospah
Tesoro	HSU #27	SE-SE Sec 36-18N-9W	7"	1611'	50 sx	1410'	1630'	1611'-30'	U. Hospah
Tesoro	HSU #50	SE-SE Sec 36-18N-9W	5 1/2"	1592'	53 sx	1290'	1614'	1592-1614'	U. Hospah
Tesoro	HSU #65	SE-SE Sec 36-18N-9W	7" 4 1/2"	80' 1746'	35 sx 50 sx	surface 1270'	1747'	1644'-92'	U. Hospah (Injection Well)
Tesoro	HSU #25	SW-SE Sec 36-18N-9W	7"	1621'	50 sx	1420'	1646'	1625'-46'	U. Hospah
Tesoro	HSU #48	SW-SE Sec 36-18N-9W	5 1/2"	1579'	75 sx	1110'	1615'	P & A	--
Tesoro	HSU #19	SW-SE Sec 36-18N-9W	5 1/2"	1584'	100 sx	960'	1632'	1584-1632'	U. Hospah
Tesoro	HSU#53-Y	SW-SE Sec 36-18N-9W	10 3/4" 7"	140' 3238'	150 sx 250 sx	surface 2390'	3240'	3114-3200'	Morrison - Water Well
Tesoro	HSU #16	SW-SE Sec 36-18N-9W	5 1/2"	1623'	130 sx	810'	1663'	1623'-63'	U. Hospah
Tesoro	HSU #3	SE-SW Sec 36-18N-9W	6 5/8"	1609'	75 sx	1300'	1640'	1609'-40'	U. Hospah

Wells Within 1/2 Mile of Proposed Injection Wells

<u>Operator</u>	<u>Well Name</u>	<u>Location</u>	<u>Casing Strings</u>	<u>Setting Depth</u>	<u>Cement Volume</u>	<u>Cement Top</u>	<u>Total Depth</u>	<u>Producing Interval</u>	<u>Producing Formation</u>
Tesoro	HSU #7	SE-SW Sec 36-18N-9W	12 1/2" 7"	30' 1608'	10 sx 50 sx	10' 1390'	1656'	1608'-56'	U. Hospah
Tesoro	HSU #15	SE-SW Sec 36-18N-9W	7"	1626'	100 sx	1190'	1677'	1626'-66'	U. Hospah
Tesoro	HSU #10	SE-SW Sec 36-18N-9W	12 1/2" 7"	18' 1630'	10 sx 40 sx	surface 1420'	1666'	1636'-66-	U. Hospah
Tesoro	HSU #17	SE-SW Sec 36-18N-9W	5 3/8" 2 7/8"	1622' 1646'	75 sx 115 sx	1270' 250'	1713'	1646'-81'	U. Hospah
Tesoro	HSU #70	SE-SW Sec 36-18N-9W	8 5/8" 4 1/2"	72' 1636'	50 sx 120 sx	surface 1060'	1683'	1636'-83' (Injection well)	U. Hospah
Tesoro	HSU #71	SE-SW Sec 36-18N-9W	7" 4 1/2"	75' 1705'	35 sx 50 sx	surface 1160'	1785'	1667-1717'	U. Hospah
Tesoro	HSU #31	SW-SW Sec 36-18N-9W	None	--	--	--	1763'	P & A	--
Tesoro	HSU #62	NW-SW Sec 36-18N-9W	7" 4 1/2"	77' 1747'	35 sx 50 sx	surface 1270'	1767'	1666'-98' (Injection well)	U. Hospah
Tesoro	HSU #18	NE-SW Sec 36-18N-9W	7" 5 3/8"	1698' 1705'	50 sx 71 sx	1330' 1195'	1710'	P & A	--
Tesoro	HSU #35	NE-SW Sec 36-18N-9W	7" 4 1/2"	1717' 1721'	75 sx 205 sx	1420' surface	1733'	1721'-33'	U. Hospah
Tesoro	HSU #59	NW-SE Sec 36-18N-9W	8 5/8" 4 1/2"	72' 1694'	60 sx 150 sx	surface 760'	1744'	1694-1744'	U. Hospah
Tesoro	HSU #28	NW-SE Sec 36-18N-9W	5 3/8"	1728'	75 sx	1380'	1753'	1728'-53'	U. Hospah
Tesoro	HSU #36	NW-SE Sec 36-18N-9W	5 1/2"	1694'			1704'	1694-1704'	U. Hospah

Wells Within 1/2 Mile of Proposed Injection Wells

<u>Operator</u>	<u>Well Name</u>	<u>Location</u>	<u>Casing Strings</u>	<u>Setting Depth</u>	<u>Cement Volume</u>	<u>Cement Top</u>	<u>Total Depth</u>	<u>Producing Interval</u>	<u>Producing Formation</u>
Tesoro	HSU #33	NW-SE Sec 36-18N-9W	5 1/2"	1775'	150 sx	1020'	1790'	P & A	--
Tesoro	HSU #34	NW-SE Sec 36-18N-9W	7"	1765'	150 sx	1010'	1780'	1965'-80'	U. Hospah
Tesoro	HSU #32	NE-SE Sec 36-18N-9W	5 3/8"	1770'	75 sx	1420'	1788'	1770'-88'	U. Hospah
Tesoro	HSU #37	NE-SE Sec 36-18N-9W	5 1/2"	1710'	150 sx	960'	1730'	1710'-30'	U. Hospah
Tesoro	HSU #30	SE-NE Sec 36-18N-9W	5 1/2"	1779'	50 sx	1430'	1801'	P & A	--
Tesoro	HSU #30A	SE-NE Sec 36-18N-9W	5 3/8"	1760'	50 sx	1450'	1781'	P & A	--
Tesoro	HSU #29	SW-NE Sec 36-18N-9W	5 1/2"	1782'	50 sx	810'	1798'	1982'-88'	U. Hospah
Tesoro	HSU #86	SW-NE Sec 36-18N-9W	8 5/8" 5 1/2"	150' 1860'	100 sx 90 sx	surface 1400'	2918'	P & A	--
Tesoro	HSU #63	SE-NW Sec 36-18N-9W	7" 4 1/2"	80' 1843'	20 sx 50 sx	surface 1360'	1844'	1732'-42'	U. Hospah