

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
811 South First St., Artesia, NM 88210-2835
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87505-6429
APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A
New 3-12-96

APPROVAL PROCESS:
____ Administrative ____ Hearing
EXISTING WELLBORE
☒ YES ____ NO

FOUR STAR OIL AND GAS COMPANY	3300 N. Butler Ave, Ste100	Farmington	NM	87401
Operator	Address			
FARMING E	3	K	02	T24N R06W RIO ARRIBA
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge		County
OGRID No. 131994	Property Code	API No. 3003905642	Federal ☐ State ☒ (and/or) Fee ☐	Spacing Unit Lease Types: (check 1 or more)

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	DEVILS FORK GALLUP		BASIN DAKOTA
2. Top and Bottom of Pay Section (Perforations)	5514'-5708'		6612'-6682'
3. Type of Production (Oil or Gas)	OIL		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas - Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 0 b. (Original)	a. b.	a. 454 b.
6. Oil Gravity (*API) or Gas BTU Content	44		N/A
7. Producing or Shut-in ?	SHUT IN		PRODUCING
Production Marginal? (yes or no)	YES		YES
* If Shut-in, give date and oil/gas/ water rates of last production Note: For new zones with no production history applicant shall be required to attach production estimates and supporting data	Date: Rates: SHUT IN 1984- NO PROD.RECO	Date: Rates:	Date: 6/1/99 Rates:
* If Producing, give date and oil/gas/ water rates of recent test (ithin 60 days)	Date: Rates:	Date: Rates:	Date: 6/1/99 Rates: OIL-0 GAS-10MCF WTR-0
8. Fixed Percentage Allocation Formulla - % for each zone	Oil: 100 % Gas: 36 %	Oil: % Gas: %	Oil: 0 % Gas: 64 %

9. If allocation formula is based upon something other than current or past production, or is based on some other method, submit attachments with supporting data and/or explaining mmethod and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ____ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ____ Yes ____ No
Have all offset operators been given written notice of the proposed downhole commingling ____ Yes ☒ No
11. Will cross-flow occur? ____ Yes ☒ No If yes, are fluids compayible, will formations not be damaged, will any cros flowed production be recovered, and will the allocation formula be reliable. ____ Yes ____ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other ☒ Yes ____ No
13. Will the value of production be decreased by commingling? ____ Yes ☒ No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application ☒ Yes ____ No
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____
16. ATTACHMENTS:
*C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
*Production curve for each zone for at least one year. (If not available, attach explanation.)
*For zones with no production history, estimated production rates and supporting data.
*Data to support allocation method or formula.
*Notification list of all offset, operators.
*Notification list of all working, overriding, and royalty interest for uncommon interest cases.
*Any additional statements, data, or documents required to support commingling.

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

Signature Rached Hindi Title Senior Engineer Date 7/22/99
TYPE OR PRINT NAM Rached Hindi Telephone 325-4397

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well: ☐ OIL WELL ☒ GAS WELL ☐ OTHER

2. Name of Operator
FOUR STAR OIL AND GAS COMPANY

3. Address and Telephone No.
3300 N. Butler Ave, Ste100 Farmington NM 87401 325-4397

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

Unit Letter K : 1850 Feet From The SOUTH Line and 1750 Feet From The
WEST Line Section 02 Township T24N Range R06W

5. Lease Designation and Serial No.

E-1207

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number

FARMING E

3

9. API Well No.

3003905642

10. Field and Pool, Exploratory Area
DEVILS FORK GALLUP (ASSOCIATED)

11. County or Parish, State

RIO ARRIBA, NM

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION

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

TYPE OF ACTION

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

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

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

FOUR STAR OIL & GAS REQUESTS APPROVAL TO DOWNHOLE COMMINGLE PRODUCTION FROM THE SUBJECT WELL.

ZONES TO BE COMMINGLED:

DEVILS FORK GALLUP
PERFORATIONS 5514'-5708'
PRODUCTION 0
GAS BTU N/A

BASIN DAKOTA
6612'-6682'
10 MCFD
1155

THE THE GALLUP AND DAKOTA FORMATIONS WILL BE RESTIMULATED AND PRODUCED THROUGH ONE 2-3/8" TUBING STRING. THE TWO ZONES WILL BE COMMINGLED AND PRODUCED BY MEANS OF ARTIFICIAL LIFT TO MAINTAIN A LOW FLUID LEVEL TO ENSURE MAXIMUM PRODUCTION.

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

SIGNATURE Rached Hindi TITLE Senior Engineer

DATE 7/22/99

TYPE OR PRINT NAME Rached Hindi

(This space for Federal or State office use)

APPROVED

CONDITIONS OF APPROVAL, IF ANY:

TITLE

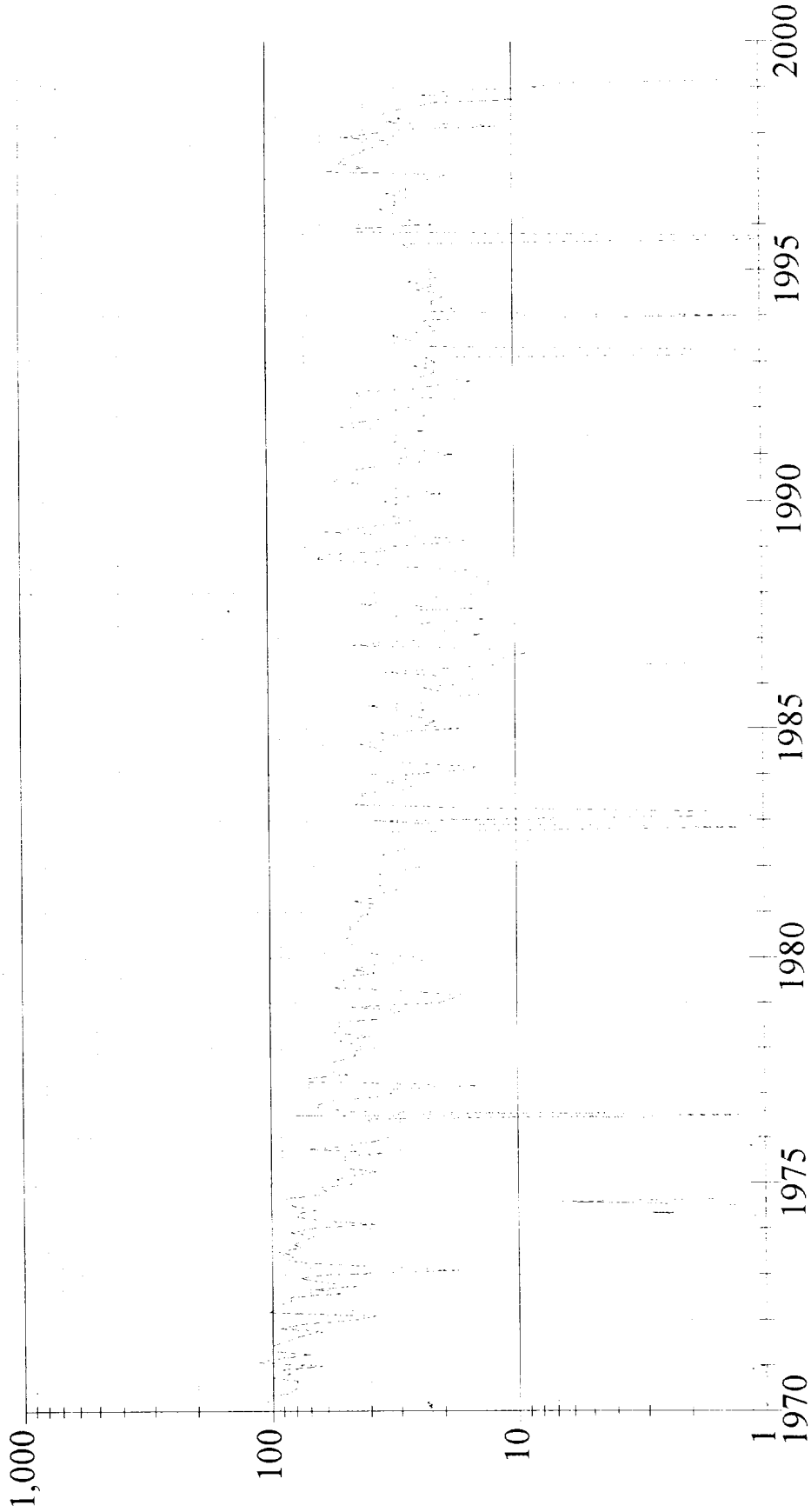
DATE

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

Oil
Gas
Water
Wells

Field: BASIN-DAKOTA
Lease: FARMING E | Well #3
Operator: FOUR STAR OIL & GAS COMPANY
Production Rate vs Time
For the Period 01/1970 to 12/1999 | API: 30039056420000

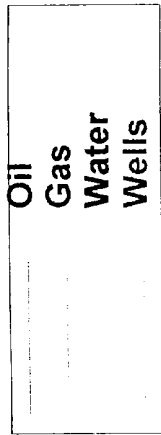
Bbl/Day or Mcf/Day



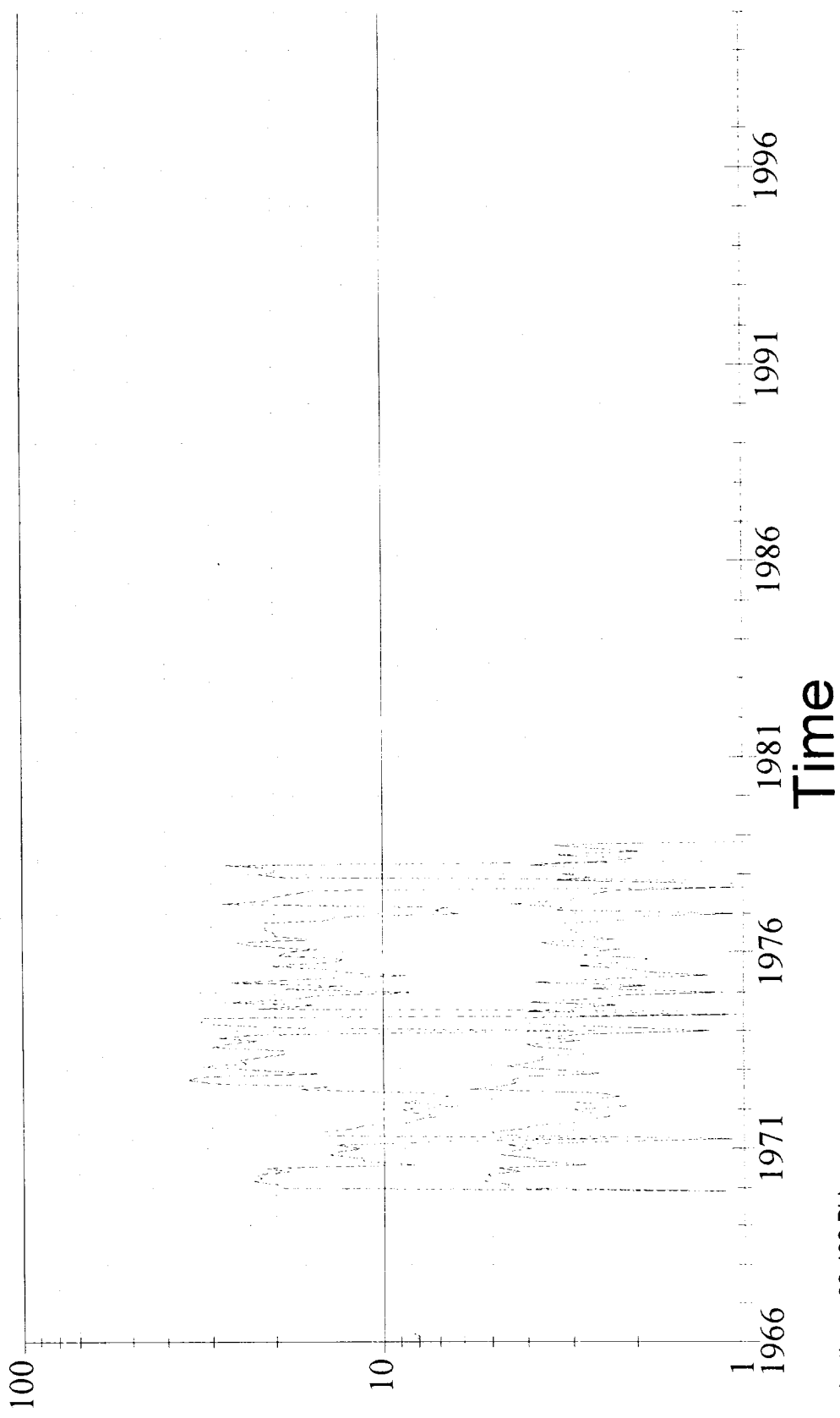
Time

Reported Oil Production = 3,302 Bbls
Reported Gas Production = 947,761 Mcf
Reported Water Production = 3,314 Bbls

Field: DEVILS FORK-GALLUP
 Lease: FARMING E | Well #3
 Operator: FOUR STAR OIL & GAS COMPANY
 Production Rate vs Time
 For the Period 01/1966 to 12/1999 | API: 30039056420000



BBbl/Day or Mcf/Day



Entity : FARMING E (017671)
Field : DEVILS FORK (15700)
Reservoir: GALLUP (612)
Operator : FOUR STAR OIL & GAS COMPANY (72673)
Location : S2 T24N R6W K RIO ARBA
Basin : SAN JUAN (580)
Zone : GALLUP /SD/ SH/ (603GLLP)
API : 30039056420000

Product: CRUDE
Start : 196008
Stop : 199206
Status : INACTIVE
Dist : AZTEC
Well# : 3
Lat : 36.33946
Lng : 107.44027

Yearly Production				Opening Cumulatives	
=====					
Year	Gas	Liquid	Water	Gas	Liquid Water
70	6258	1613	7	119954	28540 0
71	3645	1215	0	126212	30153 7
72	5801	1256	0	129857	31368 7
73	8954	1256	0	135658	32624 7
74	6490	1016	0	144612	33880 7
75	5628	804	0	151102	34896 7
76	7021	1003	0	156730	35700 7
77	4334	863	0	163751	36703 7
78	2709	873	0	168085	37566 7
79	0	0	0	170794	38439 7
80	0	0	4	170794	38439 7
88	0	0	2	170794	38439 11
89	0	0	12	170794	38439 13
90	0	0	6	170794	38439 25
91	0	0	4	170794	38439 31
92	0	0	0	170794	38439 35
93	0	0	0	170794	38439

17.5
mcf/d

Entity : FARMING E (017671)

Field : BASIN (4100)

Reservoir: DAKOTA (604)

Operator : FOUR STAR OIL & GAS COMPANY (72673)

Location : S2 T24N R6W K RIO ARBA

Basin : SAN JUAN (580)

Zone : DAKOTA (602DKOT)

API : 30039056420000

Product: GAS

Start : 196008

Stop : 199902

Status : ACTIVE

Dist : AZTEC

Well# : 3

Lat : 36.33946

Lng : 107.44027

Yearly Production				
=====				
Year	Year To Date		Opening Cumulatives	
	Gas	Liquid	Gas	Water
70	33715	200	540055	0
71	31244	11	573770	0
72	25983	0	605014	0
73	25518	45	630997	0
74	25276	330	656515	0
75	17659	37	681791	0
76	14762	20	699450	2485
77	17878	15	714212	0
78	16308	0	732090	0
79	13264	0	748398	0
80	15658	0	761662	0
81	12521	0	777320	0
82	9798	0	789841	0
83	9691	0	799639	0
84	10907	0	809330	0
85	7665	0	820237	0
86	5367	3	827902	67
87	7290	0	833269	101
88	9508	0	840559	116
89	11017	0	850067	95
90	11754	0	861084	110
91	10211	0	872838	113
92	8798	0	883049	109
93	6999	0	891847	118
94	7017	0	898846	0
95	8106	0	905863	0
96	10063	0	913969	0
97	14250	39	924032	0
98	9050	0	938282	0
99	429	0	947332	0

36.5

36.5

36.5

DISTRICT I

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

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102

Revised February 10, 1999

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copy

Fee Lease - 3 Copy

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3003905642	² Pool Code 71599	³ Pool Name BASIN DAKOTA (PRORATED GAS)
⁴ Property Code	⁵ Property Name FARMING E	⁶ Well No. 3
⁷ OGRID Number 131994	⁸ Operator Name FOUR STAR OIL AND GAS COMPANY	⁹ Elevation 6482

¹⁰ Surface Location

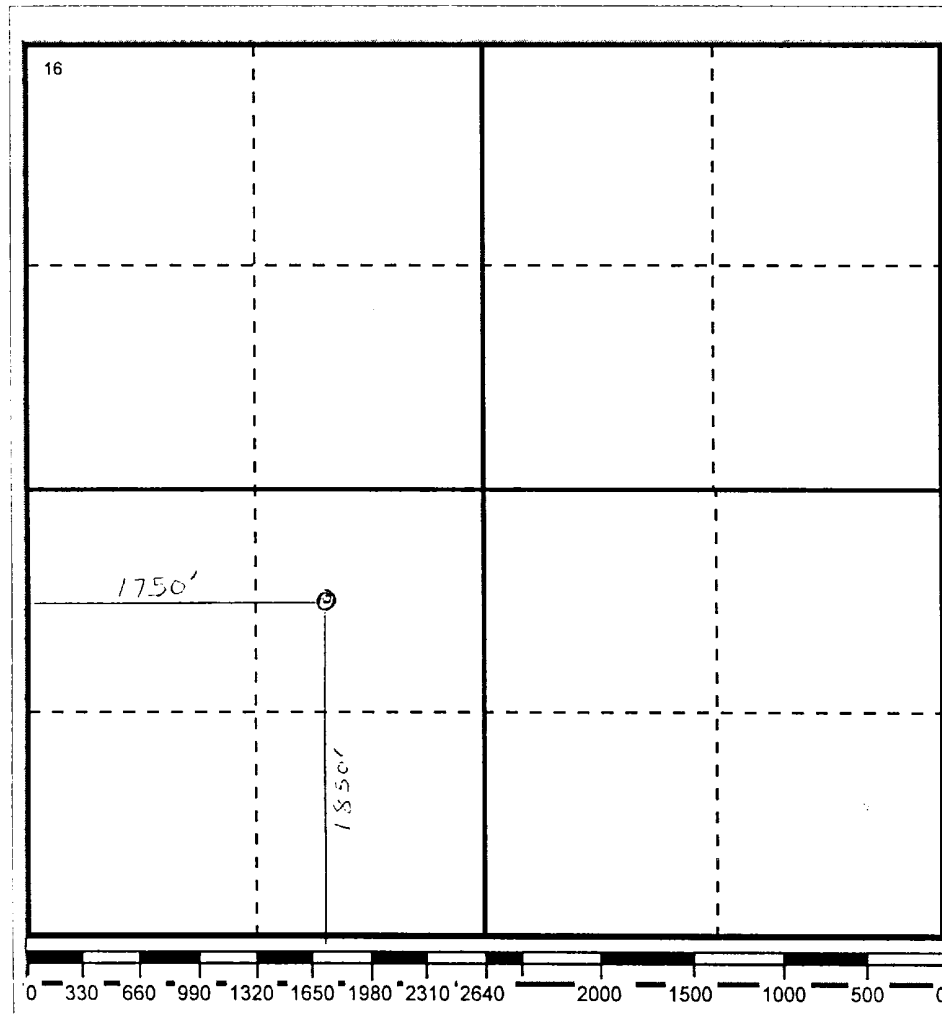
UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
K	02	T24N	R06W		1850	SOUTH	1750	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
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¹² Dedicated Acre	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁷ OPERATOR CERTIFICATION

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

Signature

Printed Name

Rached Hindi

Positio

Senior Engineer

Date

7/30/99

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown
on this plat was plotted from field notes of
actual surveys made by me or under my
supervision, and that the same is true and
correct to the best of my knowledge and
belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.

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Revised February 10, 1999

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Fee Lease - 3 Copie

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3003905642	² Pool Code 17610	³ Pool Name DEVILS FORK GALLUP (ASSOCIATED)
⁴ Property Code	⁵ Property Name FARMING E	⁶ Well No. 3
⁷ OGRID Number 131994	⁸ Operator Name FOUR STAR OIL AND GAS COMPANY	⁹ Elevation 6482

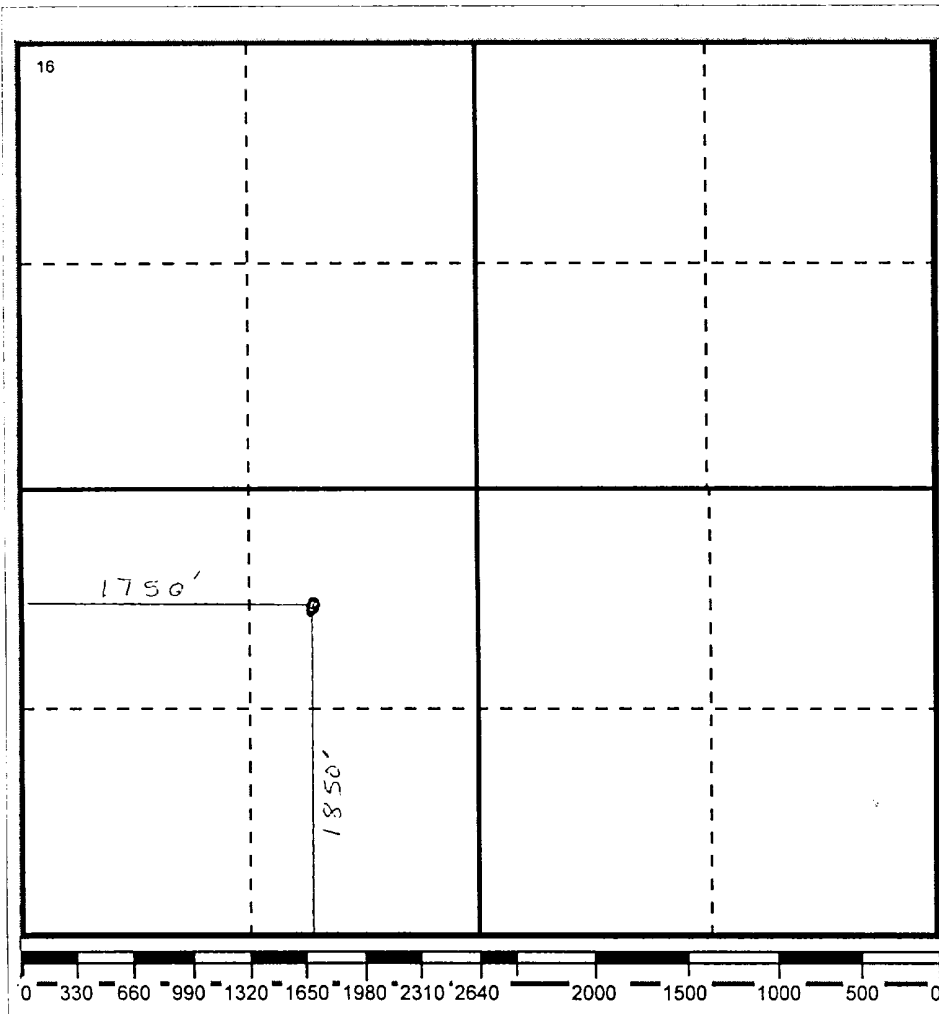
¹⁰ Surface Location

Ul or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
K	02	T24N	R06W		1850	SOUTH	1750	WEST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
¹² Dedicated Acre	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.						

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best of my knowledge and belief

Signature

Rached Hindi

Printed Name

Rached Hindi

Positio

Senior Engineer

Date

7/30/99

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown
on this plat was plotted from field notes of
actual surveys made by me or under my
supervision, and that the same is true and
correct to the best of my knowledge and
belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.



MFK 7/29/99

FARMING E No. 3 PROPOSED COMPLETION

LOCATION:

1850' FSL & 1750' FWL
Sec. 2, T24N, R6W
Rio Arriba County, NM

SPUD DATE: 6/21/60

COMPL. DATE: 8/31/60

ELEVATION: 6492' KB
6482' GL

FORMATION TOPS:

Pictured Cliffs 2222'
Lewis Shale 2297'
Chacra 3030'
Mesaverde 3734'
Gallup 5479'
Greenhorn 6416'
Dakota 6505'
Morrison 6007'

TOC @ 1670'
by temp (7/19/60)

GALLUP PERFS

5514-5606 192 holes; frac
w/ 25,000 # 20/40

5695-5707' 48 holes; frac
w/ 20,000 # 20/40

5707-5708'-test cmt job

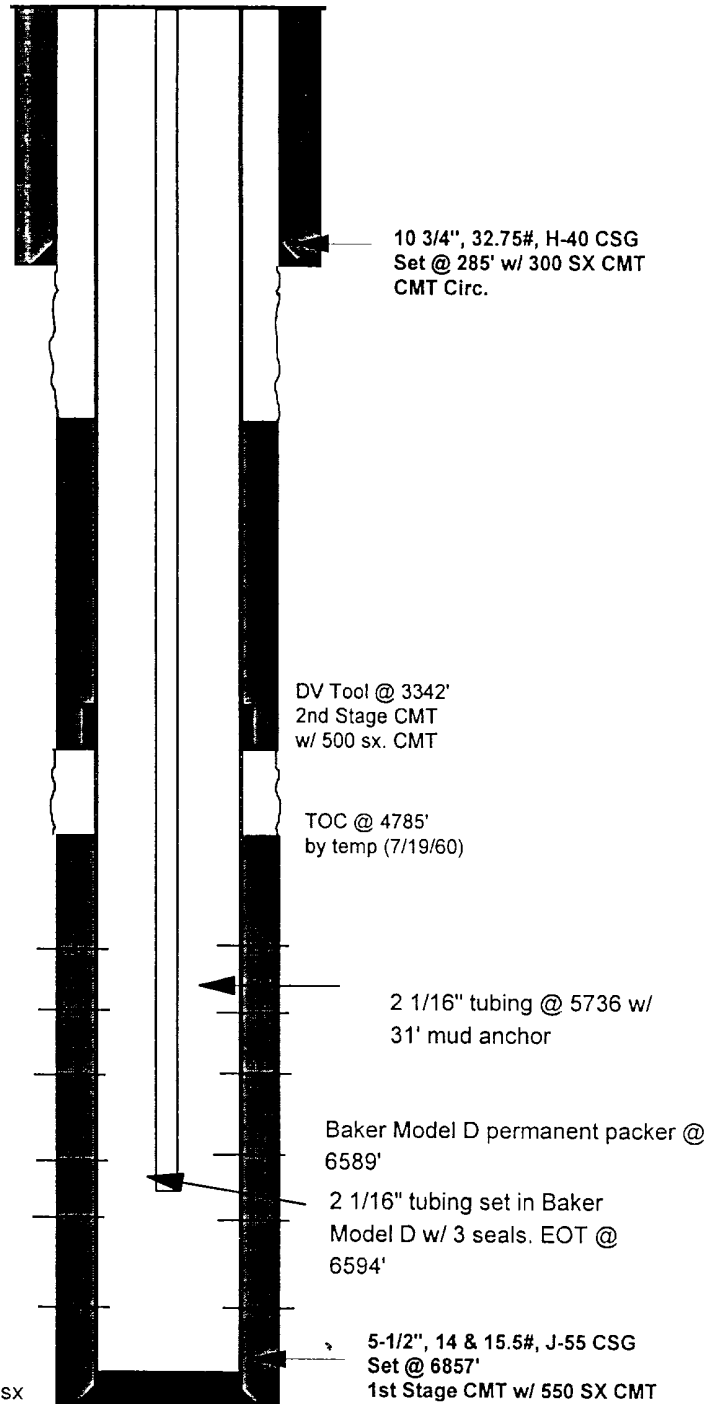
DAKOTA PERFS:

6612-81' 132 holes; frac
w/ 27,000 # 40/60 sand

6681-6682'-test cmt job

6720-6768' 192 holes
frac w/ 27,000 # 40/60;
Sqz w/ 100 sx

Squeeze job # 1-6784-85 with 100 sx
cmt. 78 sx in formation. Squeeze psi
5500 psi



PBTD = 6696'
TD = 6814'



MFK 7/29/99

FARMING E No. 3 CURRENT COMPLETION

LOCATION:

1850' FSL & 1750' FWL
Sec. 2, T24N, R6W
Rio Arriba County, NM

SPUD DATE: 6/21/60**COMPL. DATE:** 8/31/60**ELEVATION:** 6492' KB
6482' GL**FORMATION TOPS:**

Pictured Cliffs 2222'
Lewis Shale 2297'
Chacra 3030'
Mesaverde 3734'
Gallup 5479'
Greenhorn 6416'
Dakota 6505'
Morrison 6607'

GALLUP PERFS

5514-5606 192 holes; frac
w/ 25,000# 20/40

5695-5707 48 holes; frac
w/ 20,000 # 20/40

5707-5708-test cmt job

DAKOTA PERFS:

6612-81' 132 holes; frac
w/ 27,000 # 40/60 sand

6681-6682-test cmt job

6720-6768' 192 holes
frac w/ 27,000 # 40/60;
Sqz w/ 100 sx

Squeeze job # 1-6784-85 with 100 sx
cmt. 78 sx in formation. Squeeze psi
5500 psi

TOC @ 1670'
by temp (7/19/60)

10 3/4", 32.75#, H-40 CSG
Set @ 285' w/ 300 SX CMT
CMT Circ.

DV Tool @ 3342'
2nd Stage CMT
w/ 500 sx. CMT

TOC @ 4785'
by temp (7/19/60)

2 1/16" tubing @ 5736 w/
31' mud anchor

Baker Model D permanent packer @
6589'

2 1/16" tubing set in Baker
Model D w/ 3 seals. EOT @
6594'

5-1/2", 14 & 15.5#, J-55 CSG
Set @ 6857'
1st Stage CMT w/ 550 SX CMT

PBTD = 6696'
TD = 6814'

