

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

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

OIL CONSERVATION DIVISION

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

APPROVAL PROCESS:

Administrative ☐ Hearing ☐

EXISTING WELLBORE

X YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

FOUR STAR OIL AND GAS COMPANY

3300 N. Butler Ave, Ste100

Farmington

NM 87401

Operator

FARMING E

3

K

Address

02

T24N

R06W

RIO ARRIBA

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID No.

131994

Property Code

API No.

3003905642

Federal ☐

State ☒

(and/or) Fee ☐

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	a. (Current)	a.	a. 454 calculated
Gas - Oil - Flowing: Measured Current	b. (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	379		
6. Oil Gravity (*API) or Gas BTU Content	44		1155
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	Date: Rates: SHUT IN 1984- NO PROD.RECO	Date: Rates:	Date: 06/01/1999 Rates:
Note: For new zones with no production history applicant shall be required to attach production estimates and supporting data			
* If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: 06/01/1999 Rates: OIL-0 GAS-10MCF WTR-0
8. Fixed Percentage Allocation Formula - % 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 method 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 compayable, will formations not be damaged, will any cross 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

8/31/99

TYPE OR PRINT NAME Rached Hindi

Telephone

325-4397

**DISTRICT I**

P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**

P.O. Box Drawer DD, Artesia, NM 88210

**DISTRICT III**

1000 Rio Brazos Rd., Aztec, NM 87410

**OIL CONSERVATION DIVISION**

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

WELL API NO.	3003905642
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil / Gas Lease No.	E-1207
7. Lease Name or Unit Agreement Name	FARMING E
8. Well No.	3
9. Pool Name or Wildcat	DEVILS FORK GALLUP (ASSOCIATED)
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	6482

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.

1. Type of Well:	OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER
2. Name of Operator	FOUR STAR OIL AND GAS COMPANY
3. Address of Operator	3300 N. Butler Ave, Ste100 Farmington NM 87401
4. Well Location	Unit Letter <u>K</u> : <u>1850</u> Feet From The <u>SOUTH</u> Line and <u>1750</u> Feet From The <u>WEST</u> Line Section <u>02</u> Township <u>T24N</u> Range <u>R06W</u> NMPM <u>RIO ARRIBA</u> COUNTY
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	6482

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

**NOTICE OF INTENTION TO:**

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER: DOWNHOLE COMMINGLED ☒

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPERATION ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

FOUR STAR OIL AND GAS REQUESTS APPROVAL TO DOWNHOLE COMMINGLED PRODUCTION FROM THE SUBJECT WELL.

ZONES TO BE COMMINGLED

PERFORATIONS DEVILS FORK GALLUP  
PRODUCTION 5514'-5708'  
OIL GRAVITY 44

BASIN DAKOTA  
6612'-6682'  
10 MCF  
1155

THE GALLUP AND DAKOTA FORMATION WILL BE RESTIMULATED AND COMMINGLED. THE TWO ZONES WILL BE PRODUCED BY MEANS OF ARTIFICIAL LIFT TO MAINTAIN A LOW FLUID LEVEL AND TO ENSURE MAXIMUM PRODUCTION.

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 \_\_\_\_\_

TYPE OR PRINT NAME Rached Hindi Telephone No. 325-4397

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

**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 Copie

Fee Lease - 3 Copie

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

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

<sup>10</sup> Surface Location

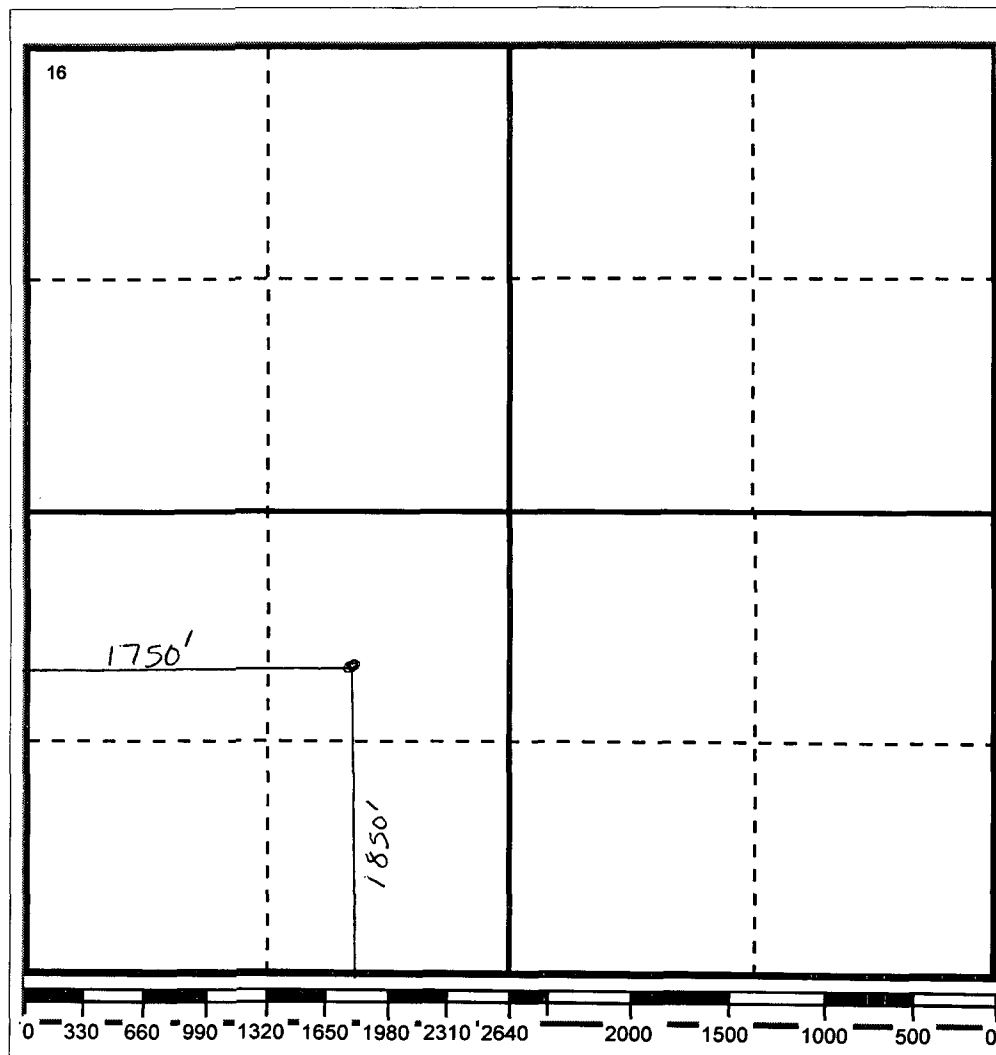
UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
K	02	T24N	R06W		1850	SOUTH	1750	WEST	RIO ARRIBA

<sup>11</sup> 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

<sup>12</sup> Dedicated Acre	<sup>13</sup> Joint or Infill No	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<sup>17</sup> OPERATOR CERTIFICATION

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

Signature

Rached Hindi

Printed Name

Rached Hindi

Positio

Senior Engineer

Date

8/31/99

<sup>18</sup> 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 &amp; Seal of

Professional Surveyor

Certificate No.

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Revised February 10, 1999

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☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

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

<sup>10</sup> Surface Location

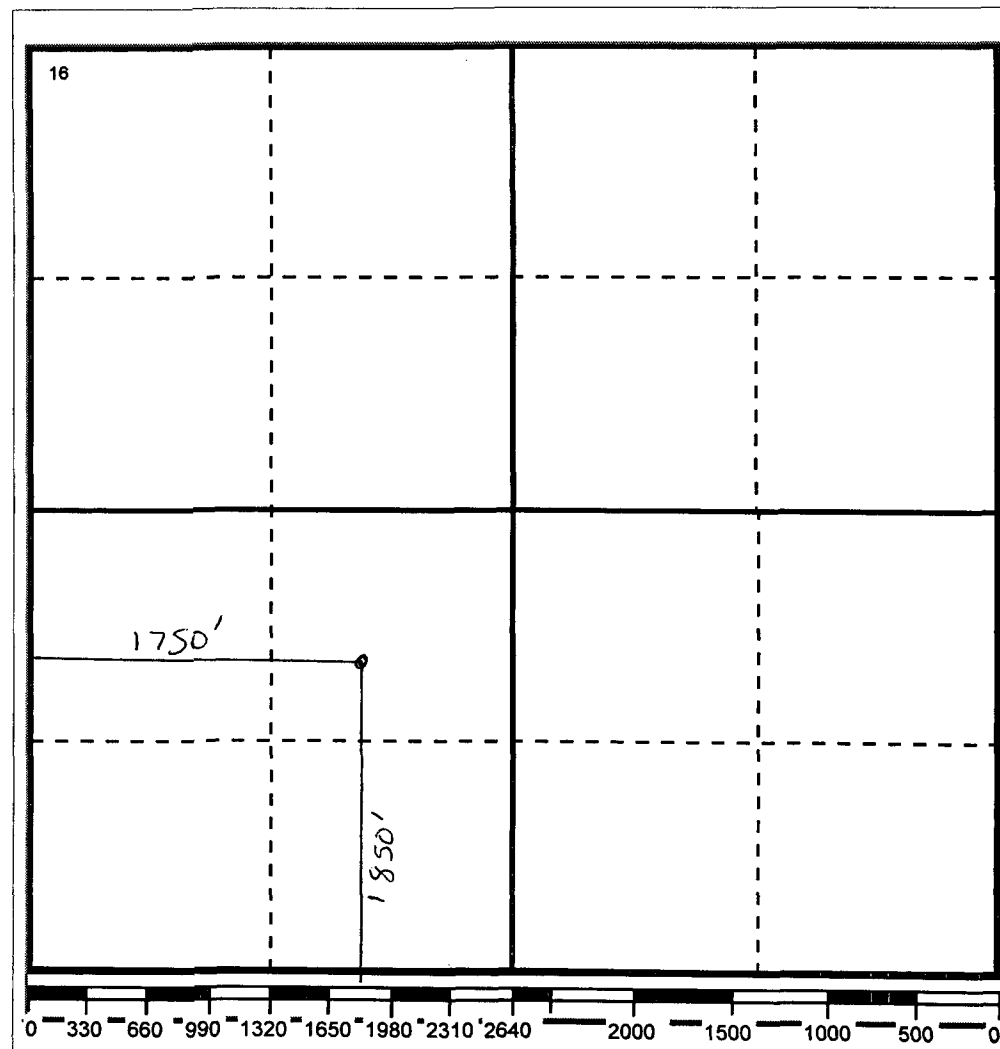
UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
K	02	T24N	R06W		1850	SOUTH	1750	WEST	RIO ARRIBA

<sup>11</sup> 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

<sup>12</sup> Dedicated Acre	<sup>13</sup> Joint or Infill No	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<sup>17</sup> OPERATOR CERTIFICATION

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

Signature

*Rached Hindi*

Printed Name

Rached Hindi

Positio

Senior Engineer

Date

8/31/99

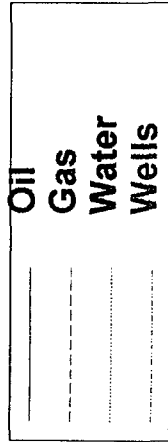
<sup>18</sup> SURVEYOR CERTIFICATION

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.

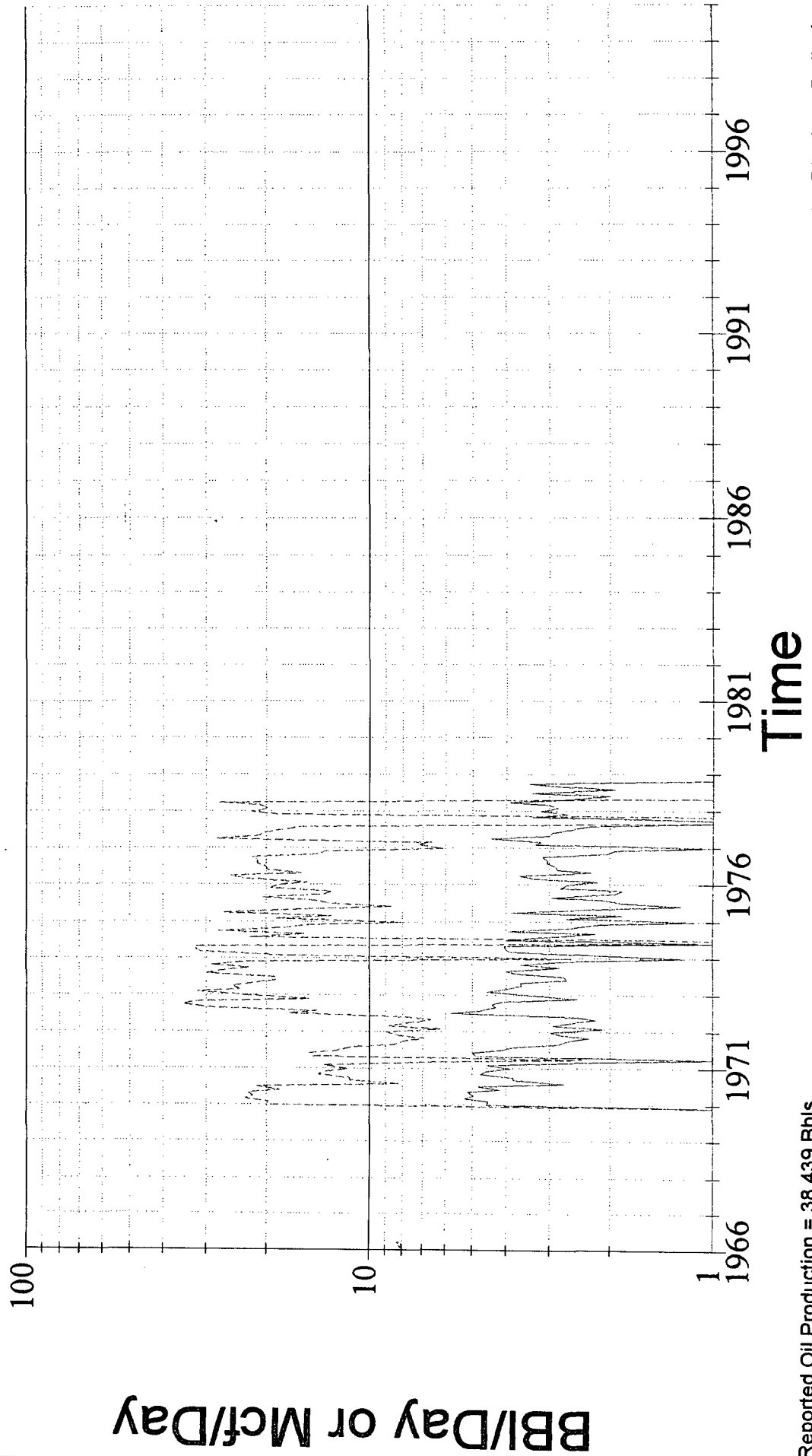
Date Surveyed

Signature & Seal of  
Professional Surveyor

Certificate No.

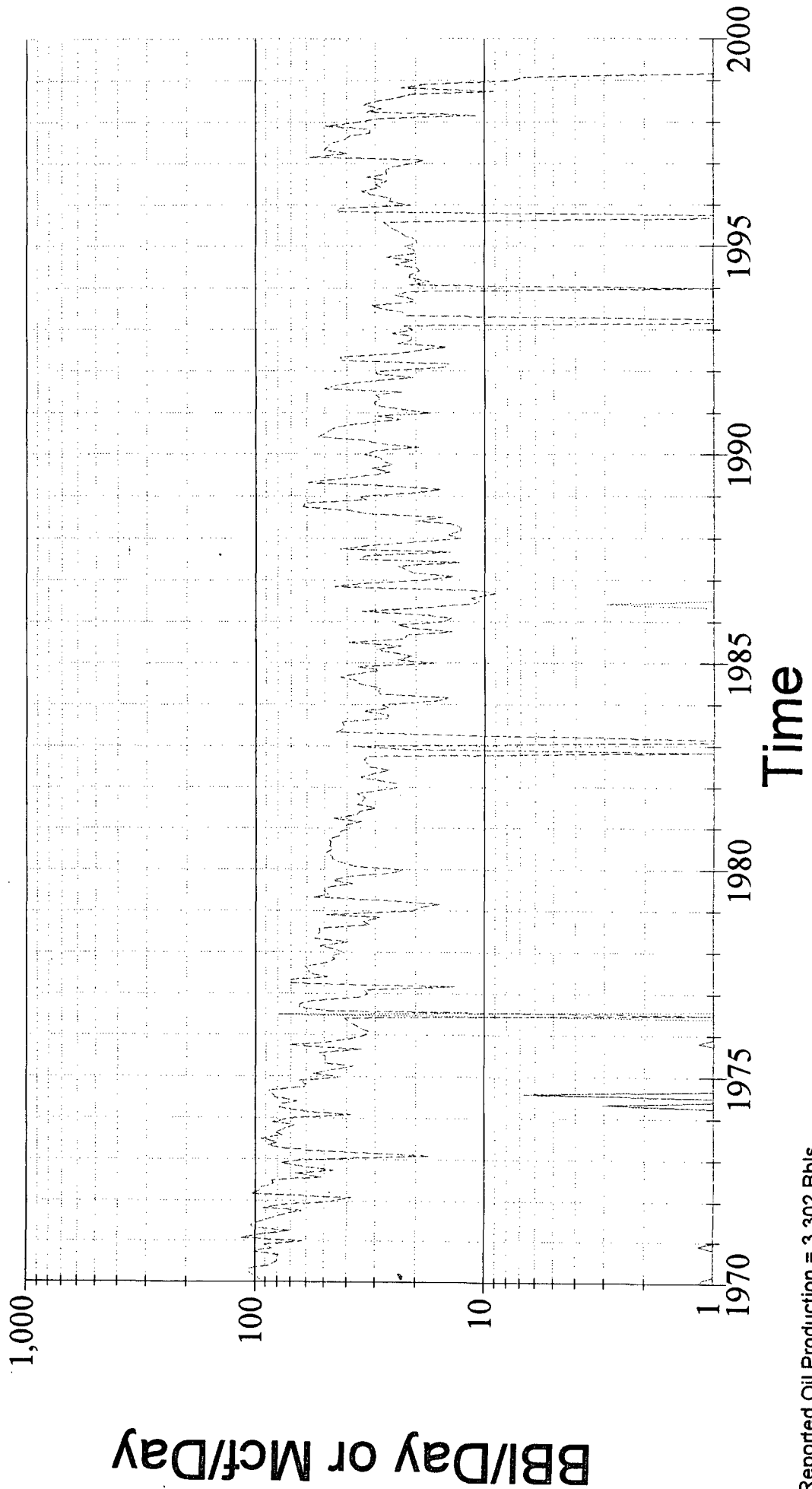
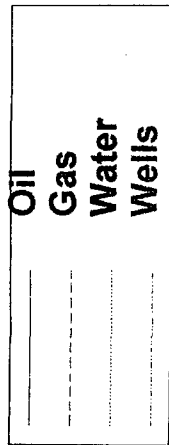


Field: DEVILS FORK-GALLUP  
 Lease: FARMING E | Well #3  
 Operator: FOUR STAR OIL & GAS COMPANY  
 Production Rate vs Time  
 For the Period 01/1966 to 12/1999 | API: 30039056420000



Reported Oil Production = 38,439 Bbls  
 Reported Gas Production = 170,794 Mcf  
 Reported Water Production = 35 Bbls

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



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

Entity : FARMING E (017671) Product: CRUDE  
 Field : DEVILS FORK (15700) Start : 196008  
 Reservoir: GALLUP (612) Stop : 199206  
 Operator : FOUR STAR OIL & GAS COMPANY (72673) Status : INACTIVE  
 Location : S2 T24N R6W K RIO ARBA Dist : AZTEC  
 Basin : SAN JUAN (580) Well# : 3  
 Zone : GALLUP /SD/ SH/ (603GLLP) Lat : 36.33946  
 API : 30039056420000 Lng : 107.44027

Yearly Production  
 =====

Year	Year To Date			Opening Cumulatives		
	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  
MCD

Entity : FARMING E (017671) Product: GAS  
Field : BASIN (4100) Start : 196008  
Reservoir: DAKOTA (604) Stop : 199902  
Operator : FOUR STAR OIL & GAS COMPANY (72673) Status : ACTIVE  
Location : S2 T24N R6W K RIO ARBA Dist : AZTEC  
Basin : SAN JUAN (580) Well# : 3  
Zone : DAKOTA (602DKOT) Lat : 36.33946  
API : 30039056420000 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	0
77	17878	15	714212	2485
78	16308	0	732090	2485
79	13264	0	748398	2485
80	15658	0	761662	2485
81	12521	0	777320	2485
82	9798	0	789841	2485
83	9691	0	799639	2485
84	10907	0	809330	2485
85	7665	0	820237	2485
86	5367	3	827902	2485
87	7290	0	833269	2552
88	9508	0	840559	2653
89	11017	0	850067	2769
90	11754	0	861084	2864
91	10211	0	872838	2974
92	8798	0	883049	3087
93	6999	0	891847	3196
94	7017	0	898846	3314
95	8106	0	905863	3314
96	10063	0	913969	3314
97	14250	39	924032	3314
98	9050	0	938282	3314
99	429	0	947332	3314

30.5  
WCTG





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

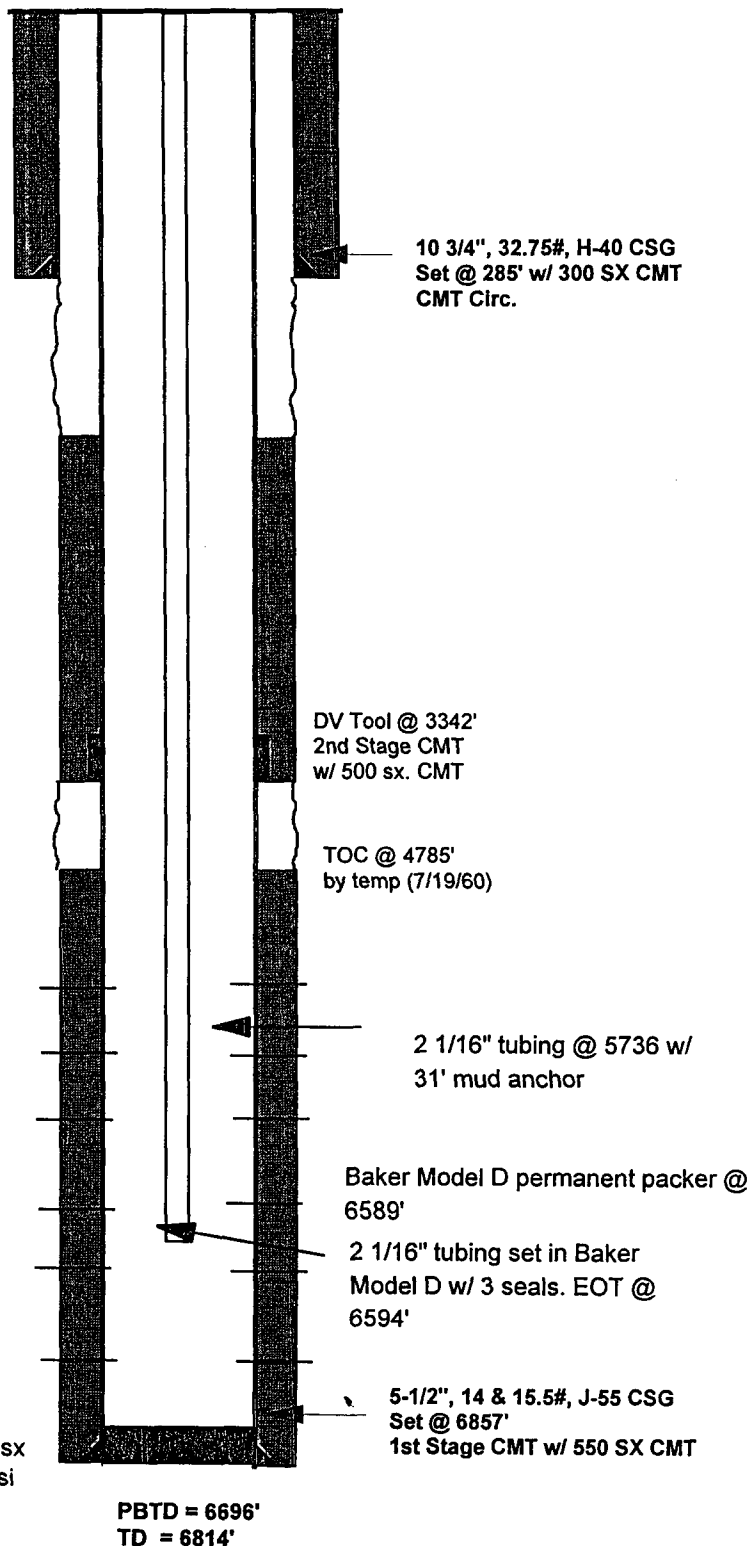
### DAKOTA PERFS:

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





# 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'  
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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'

