# Case No. 6586

Application
Transcripts

Small Exhibits

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION State Land Office Building Santa Fe, New Mexico 11 July 1979

# **EXAMINER HEARING**

IN THE MATTER OF:

Application of Dugan Production for downhole commingling, San Juan ) County, New Mexico.

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation

Division:

Ernest L. Padilla, Esq. Legal Counsel for the Division State Land Office Bldg.

Santa Fe, New Mexico 87503

For the Applicant:

Richard Tully, Esq. Attorney at Law

Farmington, New Mexico

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# THOMAS A. DUGAN

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Applicant Exhibit Three A, Map

Applicant Exhibit Three B, Map

Applicant Exhibit Three C, Map

Applicant Exhibit Four A, Log

Applicant Exhibit Four B, Log

Applicant Exhibit Four C, Log

Applicant Exhibit Four D, Log

SALLY WALTON BOYD
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016Plata Blanca (665) 471-3463
Santa Pc. New Mexico 97593

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MR. STAMETS: We'll call next Case 6586.

MR. PADILLA: Application of Dugan Production Corporation for downhole commingling, San Juan County, New Mexico.

MR. TULLY: May it please the Division,
I'm Richard Tully, General Counsel for Dugan Production
Corporation, Farmington, New Mexico; one witness, Mr.
Thomas A. Dugan.

If acceptable to the Division, we will just continue on from the previous case.

MR. STAMETS: Let the record show that the witness has been previously sworn and qualified.

### THOMAS A. DUGAN

being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

# DIRECT EXAMINATION

BY MR. TULLY:

Q Mr. Dugan, I'm now handing you what is entitled Application and in addition what has been labeled Exhibit Number One. Would you describe these for us, please?

A Okay. This is our application to the Oil Conservation Division asking for permission to commingle

SALLY WALTON BOYD
SERFIPED SHORTHAND REPORTER
9197124 BERNGS (895) 471-4461
Santa Po, New Mondon 87191

downhole the production from Fruitland and Pictured Cliffs zones in four wells in Township 30 North, 14 West, and the Exhibit One is just a map showing the location of these four wells.

The four wells are the Big Field No. 2
Well, which is is Section 3, and this well has been drilled and we're in the process of completing it. So far we haven't successfully concluded that that's a gas well.

The Big Field No. 5 Well that's in the southeast quarter of Section 10 has not been drilled. It's right next to a Dakota well that we have drilled.

The Dinero No. 1 Well in the northeast quarter of Section 13, this well has been drilled and is on production -- and is now currently producing, and the Molly Pitcher 2 in the northeast quarter of Section 14, this well has been drilled and completed but is not producing.

Also I'd like to draw the Commission's attention to three wells that have recently been completed in the south part of the township, the Mayre No. 3 Well in the southeast quarter of Section 27. This well has been completed in the Fruitland PC zone.

Also a Ladd Petroleum well in the north-west quarter of Section 35 has been completed in the Fruit-land PC zone.

And our Winifred No. 2 Well that is in

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the northeast quarter of Section 35 has been completed in the Fruitland PC zone, and these wells will be in the Harper Hill Fruitland PC Pool. They are extensions of that pool and I don't know if the limits have been extended up there yet, but I'm sure that they will be a portion of that pool.

The two wells in Section 35 are currently producing. The well in 27 is not producing.

Q Are any of these four wells presently dually completed?

A. The Molly Pitcher, yes. The Molly Pitcher No. 2 Well is perforated in both the Fruitland and Pictured Cliffs formations, and also the Big Field No. 2 Well is perforated in both horizons.

MR. STAMETS: Did you mean dually completed or downhole?

- A. Downhole commingled, excuse me.
- Q. Referring now to Exhibit Number Two, would you please describe this exhibit for us?
- A. Well, this shows the production from the Connors Fruitland Pool in brown up in Sections 1 and 12. This is a 1978 production, probably the cum, too, but I believe those wells were first delivered in '78 and then in yellow, in Sections 31 and 33, are 1978 productions from the Twin Mound Pictured Cliffs Pool and then the dedicated acreage is outlined in green and we didn't show production

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SALLY WALTON BO CENTIFIED SHORTHAND REPORT 313111 TENTIFIED (611) 411-4

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from the wells in what will be the Harper Hill Fruitland-PC Pcol, because they were just first delivered in the last month or two.

- Q Referring now to Exhibit Number Three A, would you describe this exhibit for us, please?
- A That's our daily drilling report on the Big Field 2 Well, showing the activities that have taken place on that well, and that we've perforated both the Fruitland and PC zone. We've fracd both of them together, and we're currently trying to get the well to produce, and so far we haven't.
- Q Referring now to Exhibit Number Three B, would you describe this exhibit for us?
- A Okay, this is our daily drilling report on the Dinero No. 1 Well. The well was drilled last August a year ago, and was completed natural, making 150 Mcf per day.
- Q And referring to the two pages immediately following that, would you describe those for us, included in Exhibit Three B?
- M. Okay, that's right. We've moved -- we moved in and fracd that -- the Dinero l in June of this year and helped the well to some extent. The well is currently producing with the aid of a compressor. We'd like to go in and perforate the Fruitland. We haven't done that

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yet. We can discuss that further when we get on over to the logs.

Okay. Referring now to Exhibit Number Three C, would you describe this for us, please?

This is our daily drilling report on the Molly Pitcher 2 Well, showing that we've perforated both the PC and the Fruitland zones and fracd the well. The well is making a small amount of gas, 350 Mcf. I guess that's not a small amount of gas. To me that's a large amount of gas.

It's also making quite a little bit of water.

Referring now to Exhibits Four A and Four B, Four C, and Four D, would you describe these exhibits for us, please?

Okay. This is the -- the Four A is a log of the Big Field 2 Well, showing the -- some of them I put the zones that we perforated on, which we perforated 1198 to 1208 in the Pictured Cliffs. We also perforated 1078 to 1092 in the Fruitland horizon.

MR. STAMETS: That's on the Big Field No. 22

Yes, sir.

And the Big Field No. 5 Well, did you indicate that that well has not been drilled at this particular time?

A That well has not been drilled; however, when we do drill it, it will be on the same location as the Big Field No. 1 Well, which was a Dakota well, and the Exhibit Four A -- Four B is a log of the -- is a copy of our log in the -- showing the Pictured Cliffs formation and also the Fruitland zone that we'd like to attempt a completion in, the Pictured Cliffs being at about 1812 and the Fruitland zone that we were hoping to make a completion in at 1480 to 1500.

Q Now Exhibit Number Four C.

A. Is a Xeroxed copy of the Dinero log. We have perforated that well 1618 to 28 in the Pictured Cliffs horizon. We'd also like to open up some zones in the Fruitland horizon, which would be at 1400 and also at 1470 to 75.

Q And Exhibit Number Four D.

A. Is a copy of the Molly Pitcher 2 log and we perforated this well -- we perforated it 1679 to 89; 1586 to 89; 1492 to 97.

Q In your professional opinion do you feel that the production from the Fruitland and the Pictured Cliffs zones in this area will only result in low marginal production?

A. Unfortunately, I'm afraid that's true.

Q. For each of these four wells is the owner-

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THAND REPORTER
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ship of these two pools common?

A. Yes.

MR. TULLY: At this time I would move for the introduction of Exhibits One, Two, Three A, Three B, Three C, Four A, Four B, Four C, and Four D, into evidence.

MR. STAMETS: These exhibits will be admitted.

Q Mr. Dugan, would you give us your prognosis of future production from these wells?

A Well, it's in an area that hasn't produced too well up to this date and hopefully with a -- we might get it doing a little better, but I'm afraid that they'll continue to be marginal wells.

Q. What about the allocation of the future production from these wells?

A. Well, I was in hopes that we could one day extend the Fruitland PC Pool, the Harper Hill Fruitland PC Pool up in that direction, and include these wells in -- in that pool, where the production would not be allocated, it would be all one common reservoir.

I talked to Al Kendrick about this. He was a little reluctant to do it because of the existence of that Connor Fruitland Pool in Sections 1 and 12; also there's quite a gap between the Harper Hill Fruitland PC Pool and these wells.

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Fruit	land-Pictur	ed Cliffs	Pool,	what	other	method	of	allo-
cation	n do you pr	opose?						

- A. Well, it could be mutually agreed upon formula with Al Kendrick and myself, would be highly satisfactory with me.
- Q Do you currently have any pressures from these two zones in this area?
- A I don't have any Fruitland pressures and the Pictured Cliffs pressure is around 350 pounds.
- Q In your professional opinion will the proposed commingling from these zones result in recovery of additional hydrocarbons from each of the pools, thereby preventin waste, and that the commingling will not violate correlative rights?
- A. If we're lucky enough to get the wells to produce from both horizons, why, it's going to produce some gas that otherwise wouldn't be produced, and I don't believe there would be any correlative rights affected.

MR. TULLY: I have no further questions except one to the Division.

Have you received any waivers?

MR. STAMETS: Yes, we have waivers from

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and Winston, Inc., Tenneco. That appears to be the entire

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MR. TULLY: Thank you.

### CROSS EXAMINATION

# BY MR. STAMETS:

Q Mr. Dugan, do either of these zones make any liquids?

A. Yes. They both make a little water but no oil.

A little, how much are you talking about?

A. Well, it varies by wells. That Molly

Pitcher 2 Well seems to be making quite a little bit of

water after we fracd it. I don't have an exact measurement

on it, but I'd say in the neighborhood of 10 to 15 barrels

a day.

The Dinero Well is making 2 to 3 barrels of water a day.

The Big Field 2 is making enough water that we haven't been able to get it to flow steady; not much gas. I'm not sure that we're going to make a successful completion out of the Big Field 2 at this particular time.

Q Are the -- is the Dinero Well already commingled between the two zones?

A. No.

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A PC.

Q Have you been able to tell if the Fruitland is making any water in the area?

A. In the area?

Q. Uh-huh.

A. Yeah, I think down in the Harper Hill area that the Fruitland in some cases does make water. I'm not familiar with the Odessa Natural Gas Fruitland wells to the north. And I think that the Big Field 2 Well is making water from the Fruitland.

Q Will you be able to produce these wells naturally or will you have to put a compressor on them?

A. We'll have to have a compressor on all of them, because that line pressure out there, that's a Dakota gathering system and it runs around 300 psi, the shutins are in that neighborhood, 300 to 350.

Q Now you indicated you didn't have any Fruitland pressures at all?

I don't personally and I didn't look up the Odessa Natural pressures. I should have but I didn't.

Q Where -- which wells are those?

A That would be those Connor wells, in the Connor Fruitland Pools in Sections 1 and 12.

Q Okay, those should be of record with the

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A. Yes, they should be. I should have looked it up, but I didn't.

Q Okay. Didn't blow out when you drilled it, anyway.

A. No, sir.

MR. STAMETS: Any other questions of the witness? He may be excused.

Anything further in this case?

The case will be taken under advisement.

(Hearing concluded.)

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I, SALLY W. BOYD, a Court Reporter, DO HEREBY

CERTIFY that the foregoing and attached Transcript of

Hearing before the Oil Conservation Division was reported

by me; that said transcript is a full, true, and correct

record of the hearing, prepared by me to the best of my

ability, knowledge, and skill, from my notes taken at the

time of the hearing.

REPORTER'S CERTIFICATE

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6585

heard by me on 2-16 192

Oil Conservation Division

SALLY WALTON BO'
CERTIFIED SHORTHAND REPORT
1010 Plate Blasse (6.01) 471-4
Senta Pe, New Mexico 371

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION State Land Office Building Santa Fe, New Mexico 11 July 1979

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Applicant Exhibit Three C, Map

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Applicant Exhibit Four A, Log

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Applicant Exhibit Four B, Log

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Applicant Exhibit Four C, Log

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Applicant Exhibit Four D, Log

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SALLY WALTON BOY CERTIFED SHORTHAND REPORT 1919 PLAZE BERGG (615) 411-34 Sants PC, New Mexico 5110 10

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# SALLY WALTON BOY! CERTIFIED SHORTHAND REPORT 1915 Plane Bladds (1915) 471, 444 Senta Pe, New Mexico 5716;

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### CROSS EXAMINATION

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SALLY WALTON BOYD	CERTIFIED SHORTHAND MEPORTER	8626 Plaza Blanca (865) 471-2462 Santa Fe, New Mexico 87561	

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# SEPONE RIS COURTERANCE

CERTIFY that the foregoing and abtached Transcript of Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, knowledge, and skill, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

Oll Conservation Division

SALLY WALTON BOYE
CENTIFIED SHORTHAND REPORTE
SOLLEYBLAR BRIDGE (195) 471-74
SELLE FO. NOW MARROW 31503

# LARRY KEHOE SECRETARY

# STATE OF NEW MEXICO **ENERGY AND MINERALS DEPARTMENT** OIL CONSERVATION DIVISION

July 31, 1979

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Mr. Richard Tully General Counsel Dugan Production Corporat	Re:	CASE NO. 69	586
P. O. Box 234 Farmington, New Mexico 8	7401	Applicant:	
	•	Dugan Production	on Corporatio
Dear Sir:			
Enclosed herewith are tw Division order recently			
Yours very truly,  JOE D. RAMEY  Director			
JDR/fd			
Copy of order also sent	to:		
Hobbs OCD X Artesia OCD X Aztec OCD X			
Other			

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 6586 Order No. R-6064

APPLICATION OF DUGAN PRODUCTION CORPORATION FOR DOWNHOLE COMMINGLING, SAN JUAN COUNTY, NEW MEXICO.

# ORDER OF THE DIVISION

# BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 11, 1979, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 30th day of July, 1979, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

# FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Dugan Production Corporation, is the owner and operator of the following wells, all in Township 30 North, Range 14 West, NMPM, San Juan County, New Mexico:

Big Field Well No. 2 in Unit C of Section 3; Big Field Well No. 5 in Unit P of Section 10; Dinero Well No. 1 in Unit H of Section 13; and the Molly Pitcher Well No. 2 in Unit H of Section 14.

- (3) That the applicant seeks authority to commingle conner-Pruitland and undesignated Pictured Cliffs production within the wellbores of the above-described wells.
- (4) That from the Conner-Fruitland zone, the subject wells are or are expected to be capable of low marginal production only.

-2-Case No. 6586 Order No. R-6064

- (5) That from the undesignated Pictured Cliffs zone, the subject wells are or are expected to be capable of low marginal production only.
- (6) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.
- (7) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the wells are not shut-in for an extended period.
- (8) That to afford the Division the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Division any time any of the subject wells are shut-in for 7 consecutive days.
- (9) That in order to allocate the commingled production to each of the commingled zones in the wells, applicant should consult with the supervisor of the Aztec district office of the Division and determine an allocation formula for each of the production zones.

# IT IS THEREFORE ORDERED:

(1) That the applicant, Dugan Production Corporation, is hereby authorized to commingle Conner-Fruitland and undesignated Pictured Cliffs production within the wellbores of the following wells, all in Township 30 North, Range 14 West, NMPM, San Juan County, New Mexico:

Big Field Well No. 2 in Unit C of Section 3; Big Field Well No. 5 in Unit P of Section 10; Dinero Well No. 1 in Unit H of Section 13; and the Molly Pitcher Well No. 2 in Unit H of Section 14.

- (2) That the applicant shall consult with the Supervisor of the Aztec district office of the Division and determine an allocation formula for the allocation of production to each zone in each of the subject wells.
- (3) That the operator of the subject well shall immediately notify the Division's Aztec district office any time the wells have been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.

Case No. 6586 Order No. R-6064

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY Director

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Township 30 North, Range 14 West, N.M.P.M.

Dedicated Acreage
Big Field #2 Well 🗱
Big Field #5 Well
Dinero #1 Well 🐇
Molly Pitcher #2 Well *

APPLICATION FOR
DOWNHOLE COMMINGLING
BY DUGAN PRODUCTION CORP.
Big Field #2, Big Field #5,
Dinero #1, and Molly
Pitcher #2 Wells.

Case No	6586	
Exhibit No	. 1	

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Township 30 North, Range 14 West, N.M.P.M.

# 1978 PRODUCTION

Conner Fruitland Pool -	Big Field #2 Well 🤻
San Juan Undesignated Pictured Cliffs Pool	Big Field #5 Well 🛣 Dinero #1 Well 🌞
Twin Mounds Pictured Cliffs Pool	Molly Pitcher #2 Well
Dedicated Acreage	

APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells

Case No	6586
Exhibit No	. 2

||| |d<sub>p</sub>

Dugan Production Corp. Big Field #2

# MORNING REPORT

- Moved in and rigged up Morrow Drlg Co. Spudded 7-7/8" hole @ 11:00 a.m. Drlg to 65'. Ran 2 jts 5-1/2" OD 14# ST&C csg. TE 63.64' set @ 65' GR. Cemented by Woodco. Cemented w/35 sx. Good cement to surface. Job complete @ 2:30 p.m. 10-13-78.
- 10-15-78 Depth 500'. Drlg 4-3/4" hale w/wtr.
- 10-16-78 Depth 1020'. Drlg 4-3/4" hole w/wtr.
- 10-17-78 Drlg 4-3/4" hole to 1305' TD. Moved in and rigged up Birdwell Logging Co. and ran IES log to TD.
- TD 1310'. Ran 42 jts 2-7/8" OD 6.4# CW-55 10R reg tbg for csg. TE 1297.50' set @ 1297' GR. Preflushed hole w/100 gals mud sweep. Reciprocated pipe and had good circulation while cementing. Cemented w/50 sx 65-35 w/12% gel w/1/4# cello flake per sx followed by 75 sx class "B" w/1/4# cello flake per sx. Total slurry 214 cu ft. Bumped plug w/1500 psi, released to 750 psi. Shut in. POB 12:45 p.m. 10-17-78.
- Rigged up Drake Well Service swabbing unit and Blue Jet perforators. PBTD 1275'. Ran GR, collar locator and Neutron correlation log. Swabbed hole down to approx 1000'. Perforated 1198-1208' zone on correlation log, 10 holes 1 spf w/2-1/8" bi wire glass jets. Swabbed well dry on 1st run, waited 15 mins. swabbed dry hole, no sign of gas or water entry. Loaded hole with 4 Bbl water, fluid level @ 700'. Perforated 1078-1092 zone on correlation log, 14 holes 1 spf w/2-1/8" bi wire glass jets. Perforated 1068-1078 zone on correlation log, 10 holes, 1 spf w/2-1/8" bi wire glass jets. Swabbed hole, recovered load water and coal. Swabbed hole dry, waited 15 min. swabbed again, no water, slight amount of gas ahead of swab.

709 BLOOMFIELD RD. . P. O. BOX 234 . FARMINGTON, NEW MEXICO B7401 . PHONE 505-325-0238

APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP.
Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

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-- Dugan Production Corp. Big Field #2 Page 2

10-28-78

Rigged up Allied Services, Pumped 125 gal 15% HCl 1-1/2 B/M, dropped 11 ball sealers, pumped 125 gal 15% HCl @ 1-1/2 B/M, dropped 11 ball sealers, displaced acid w/7 Bbl water @ 1-1/2 B/M. Breakdown pressure of 1700 psi occurred while pumping 4th bbl of acid, estimated 300 ft of water in hole. Ball sealer action occurred during 2nd bbl water displaced, pressure to 1100 psi. Displacement during 2nd bbl water displaced, pressure to 1100 psi. Displacement pressure 700-500 psi. Swabbed hole dry w/2 runs, no gas ahead of swab, waited 15 min swabbed again swabbed 1/4 bbl acid tasting water, waited 15 min, swabbed again swabbed 1/4 bbl acid tasting water. Shut well in.

5-6-79

Foam fraced well by Nowsco and Western Co w/70 quality foam. Used 18 gals adafoam, 13,000# 10-20 sand, 71.5 Bbls wtr., 71,600 SCF of nitrogen (Had to cut frac job short of planned job due to Western Co. blender failure). Dropped 20 ball sealers in one stage - 50 psi increase when balls hit formation ITP 1650 psi, Min 1600 psi, Max 1650 psi, Ave 1650 psi, IR 15 B/M foam, ISDP 1050 psi, 15 min std pressure 1050 psi - left well shut in two hours opened to atmosphere through 3/4" choke.

6-8-79

Moved in and rigged up FWS strabbing unit. Ran 36 jts 1-1/4" OD 2.4# CW-55 10R EUE tbg. TE 1175.67' set @ 1174' GR. Baker Model "C" packer @ 1143' in set down position w/l jt tail pipe. Landed tbg and nippled up well head. Started swabbing.

Case No	6586
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Ougan Production Corp.
Dinero #1
1460' FNL - 810' FEL
Sec 13 T30N R14W
San Juan County, NM
Elevation 5890' GR

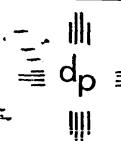
#### MORNING REPORT

- 8-11-78 Moved in and rigged up Morrow Drlg Co. Spudded 7-7/8" hole @ 8:00 a.m. Drlg to 40'. Ran 1 jt 5-1/2" OD 14# ST&C csg. TE 39.6 set @ 40' GR. Cemented to surface w/8 sx cement. Job complete 9:30 a.m. 8-10-78. WOC 10 hrs.
- 8-12-78 Depth 1430'. Drlg 4-3/4" hole w/wtr.
- 8-13-78 Depth 1580. Down 20 hrs for pump repair
- 8-14-78 TD 1770'. Prep. to run logs.
- Ran Welex IES log to TD 1770'. Rigged up csg tools. Ran 61 jts 2-7/8" OD 6.4# J-55 10R NEUE tbg for csg. TE 1768.32' set @ 1767' GR. Had good mud returns and reciprocated pipe while cementing. Cemented w/60 sx 65-35 w/12% gel w/1/4# flo cele per sx followed by 75 sx class "B" neat w/1/4# flo cele per sx. Total slury 246 cu ft. Preflushed hole w/250 gals CW-7 mud wash. Bumped plug w/2000 psi. Released press held OK. POB 4:57 p.m. 8-14-78.
- 8-23-78 Moved in and rigged up FWS pulling unit. GO Wireline ran gamma ray correlation and collar logs. PBTD 1733'. Swabbed 2-7/8" csg down to 1350'. Perf w/1 2-1/8" glass jets per foot 1618-1628' (10 holes). Made one swab run to bottom. Well kicked off making estimated 150 MCFGPD.

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Case No.	6586	
Exhibit	No	3P

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### dugan production corp.

Dugan Prouduction Corp. Dinero #1 1460' FNL - 810' FEL Sec 13 T30N R14W San Juan County, NM Elevation 5890' GR

#### REMEDIAL OPERATIONS

- 6-4-79 Moved in and rigged up FWS swabbing unit. Blew well down. Pulled 1-1/2" tbg. Removed well head and installed master valve for frac. Shut in. Rigged down FWS.
- Foam fraced w/Nowsco and Western Co w/70 quality foam. Used 25 gals adafoam, 103.5 bbls wtr and 128,800 SCF of nitrogen. Started pad pressured up to 4000 psi blew well down and pressured up and broke down w/wtr. Formation broke down and fraced as follows: ITP 1800 psi, Min 1700 psi, Max 1800 psi, Ave 1750 psi. Dropped 15 ball sealers in one stage got 50 psi pressure increase when balls hit. Average IR foam 15 B/M. ISDP 1300 psi. 5 min stdg press 1200 psi. Left well shut in two hours. Opened to atmosphere through 5/8" pos choke.
- 6-7-79 Moved in and rigged up FWS swabbing unit. Well unloading water and gas. Making estimated 500 MCF. Re-ran 50 jts 1-1/2" tbg. TE 1620.59' set @ 1618'. Tagged sand @ 1628' cleaned out to 1653'. Landed tbg and nippled up well head. Put well back on production. Rigged down FWS.

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Exhibit No.	36

Dugan Production Corp.
Molly Pitcher #2
1590' FNL - 790' FEL
Section 14, T30N R14W
San Juan County, NM
Elevation: 5950' GR

#### MORNING REPORT

- 7-26-78 Moved in and rigged up Morrow Drlg. Co. Spudded 8-3/4" hole @ 9:00 a.m. Drlg to 65'. Ran 2 jts 7" OD 26# LT&C csg. TE 64.19' set @ 64' GR. Cemented to surface w/35 sx class "B" neat w/2% CaCl. POB 11:10 a.m. 7-25-78.
- 7-27-78 Depth 1133' on bottom with new bit. Drlg with water.
- 7-28-78 TD 1800'. Logs on bottom.
- 7-29-78 Rigged up csg tools. Ran 61 jts 2-7/8" OD 6.4# CW-55 10R NEUE tbg for csg. TE 1797.97' set @ 1797' GR. Had good mud returns and reciprocated pipe while cementing/ Preflushed hole w/100 gals mud sweep. Cemented w/60 sx 65-35 w/12% gel 1/1/4# cello flake per sx followed by 75 sx class "B" w/1/4# cello flake per sx. Total slury 239 cu ft. Bumped plug w/1500 psi. Released to 750 psi. Shut in. Circulated trace of cement. POB 11:55 a.m. 7-28-78.
- 8-23-79 Moved in FWS swabbing unit. GO Wireline ran Gamma Ray correlation and collar logs. PBTD 1778'. Swabbed 2-7/8" csg down to 1200'. Perf by GO Wireline 1679-1689', 1586-1589' and 1492-1497'. Swabbed well down no indication of water entry w/very slight show gas.
- 8-31-79 Acidized well by Allied Services w/250 gals 15% reg acid w/2 gals Tretolite former. Dropped 15 ball sealers in acid some ball action. Breakdown pressure 1750 psi back to 750 psi @ 1-1/2 B/M. Had 200 psi increase when ball hit. Flushed w/10 bbls water. Swabbed down. Slight increase in gas no indicated water entry.
- Foam fraced w/Nowsco and Western Co w/70 quality foam. Used 25 gals. adafoam, 22,000# 10-20 sand, 103.5 bbls wtr and 128,800 SCF of Nitrogen Dropped 15 ball sealers in one stage got 25 psi pressure increase when balls hit perfs. Initial frac 1750 psi Max 1900 psi, Min 1750 psi, Ave 1850 psi. Average IR 15 B/M foam. Left well shut in one hour. Opened well to atmosphere unloading heavy mist of water and estimated 350 MCFGPD after eight hours.

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Case No.	6586
Exhibit	No3c

Dugan Production Corp. Molly Pitcher #2 Page 2

6-7-79 Moved in and rigged up FWS swabbing unit. Well unloading wtr and gas. Ran 52 jts 1-1/4" OD 2.4# CW-55 10R EUE tbg. TE 1683.53' set @ 1681'G Had cross pin in bottom for swab stop. Landed tbg and nippled up well head. Well came around thru tbg. Rigged down FWS.

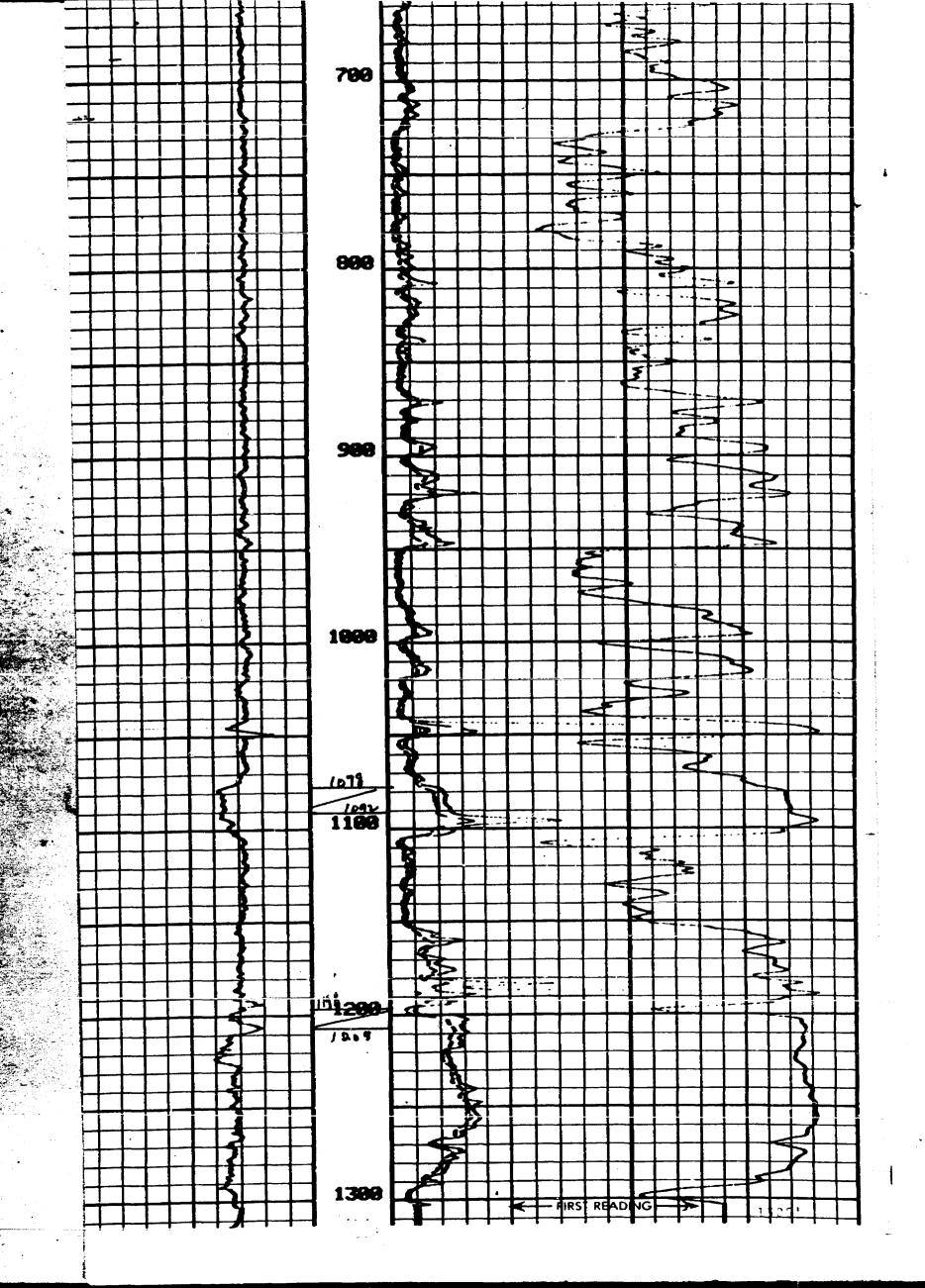
APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

Case No. 6586

Exhibit No. 3c

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Profic of 5"		Elect	ric Log	
	COMPANY_	DUGAN PI	RODUCTION C	ORPORATION
0	WELL	BIG FIE	LD #2	
1/2/	FIELD	WILDCAT		
	COUNTY	SAN JUA	NST/	ATE NEW MEXICO
Vell	LOCATION:	790'F₩L 18	850'FWL	OTHER SERVICES: NONE
,3 [	SEC. 3	7/3 TWP, 30N F	-	
PERMANENT DATU	M GROUND LE	VEL .	ELEV. 5662	ELEV. K.B. N.A.
LOG MEASURED ER	GL G.L.	O + FT ABOVE	PERM. DATUM	D.F. N.A.
DRILLING MEASURE	D FROM GROUP	ND LEVEL	•	G.L. 5662'
DATE	10/16/78			
RUN NO.	ONE			
DEPTH - DRILLER	1310'		1	
DEPTH-LOGGER	1310'			
BTM. LOG INTER.	1305'			
TOP LOG INTER.	0'			
CASING - DRILLER	5 1/2@ 40'	@	•	@
CASING-LOGGER	NOT REACHED			•
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Case No	6586
Exhibit No.	40



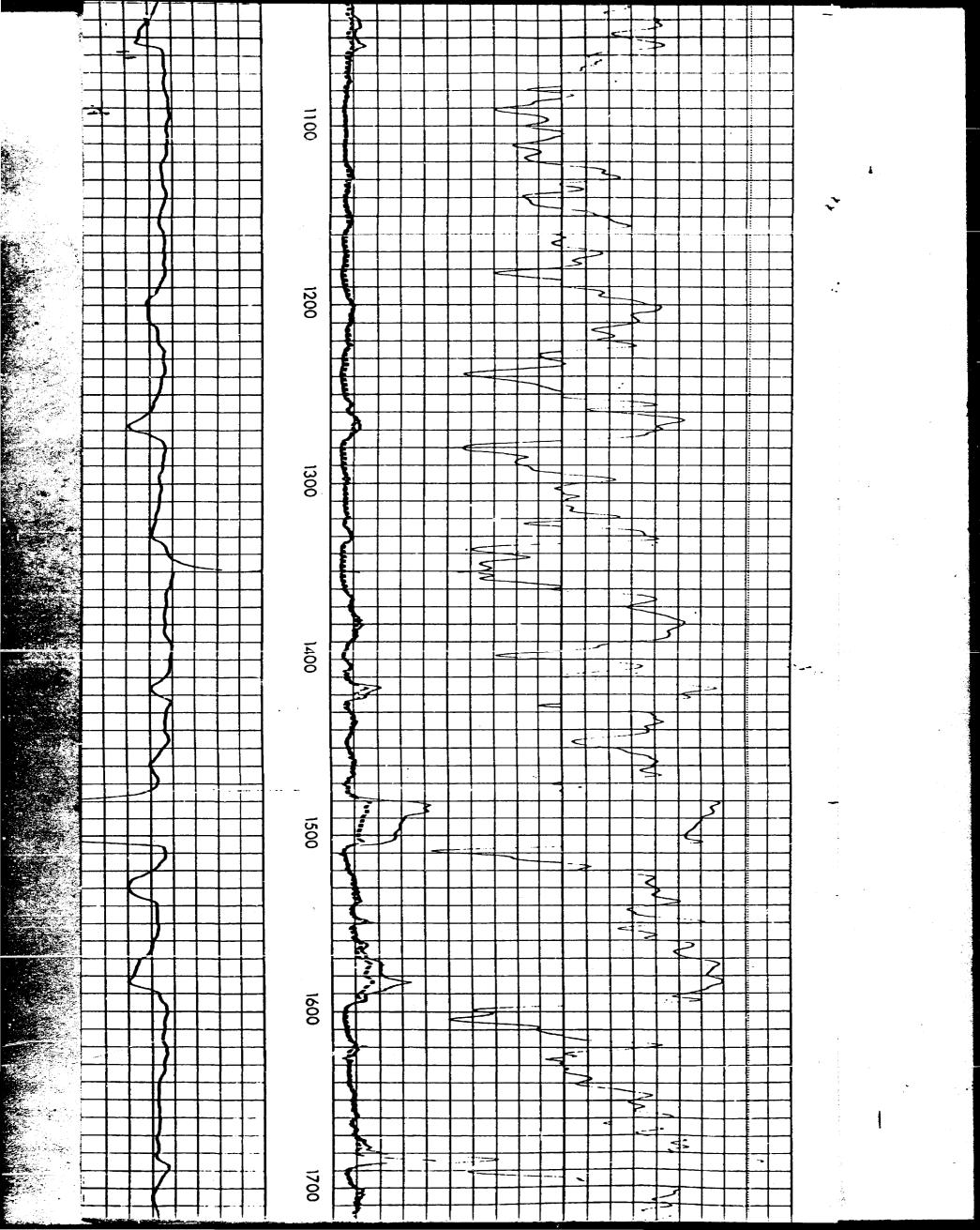
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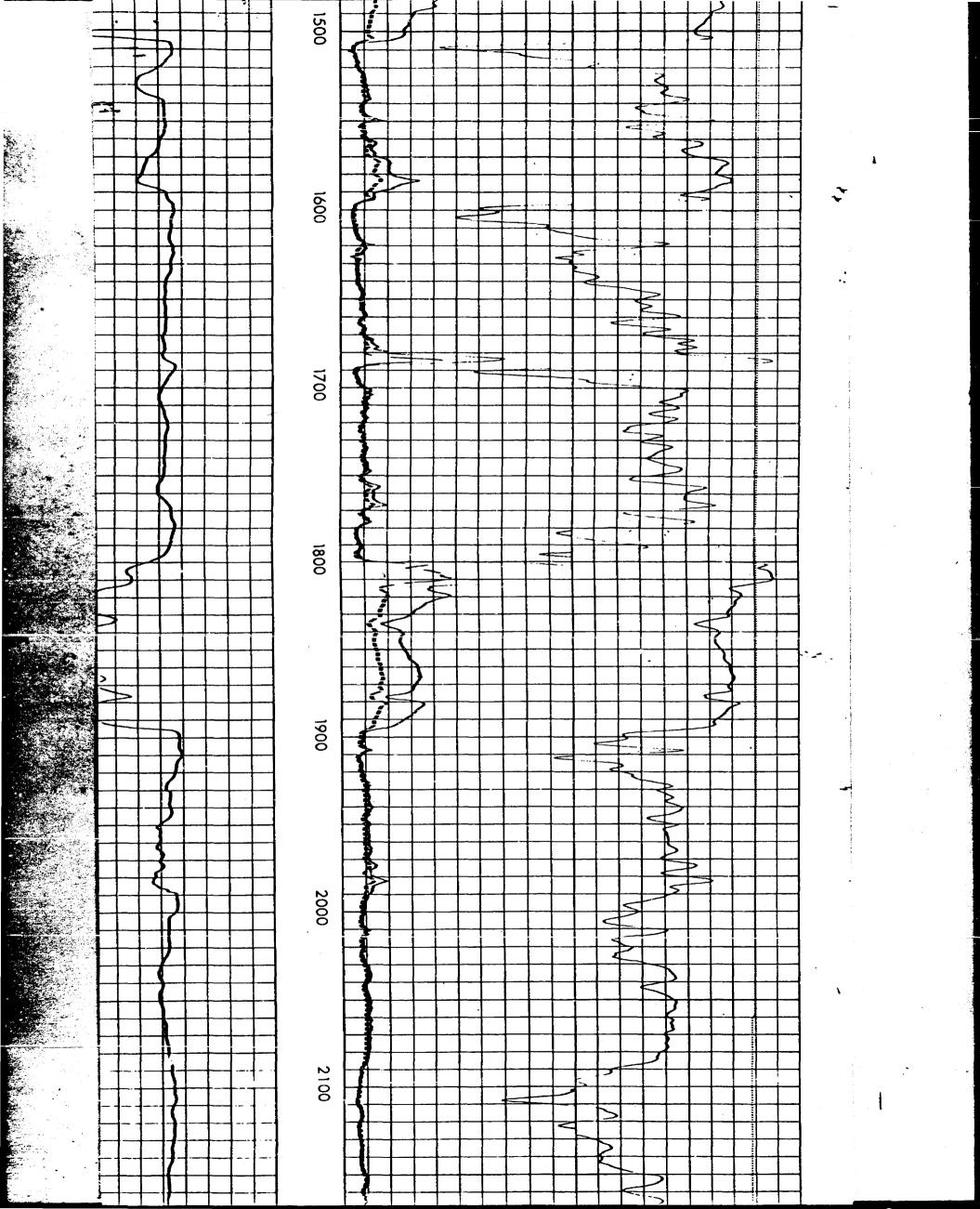
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1890	Hon

## AINDUCTION PLELEGIRIC

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	COMPANY_DUG	AN _PRÒD!	KTION	CORPORA	TEION		
State	WELLBJG_I	ELL BIG FIELD #1					
Str	FIELD_BASIN_	DAKOTA					
	COUNTY SAN	JUAN		STATE NE	W ME	KICO	
	Location				Other S	Services:	
COMPANY WELL FIELD County		FSL\$ 79				DL	
0 12 12 0	Sec _IQTwi						
Permanent Datum	EROUND LEVEL	E	v. 614	3		.в. <i>6153</i> _	
Log Measured From			Above P	erm. Datum		DF 6152	
Drilling Measured From		HG			.}	3.L. <b>.6143</b> .	
Date	3-25-79	· · ——		_ :			
Run No.	ONE,					<del></del>	
Depth—Driller	6680					· · · · · · · · · · · · · · · · · · ·	
Depth-Welex	_6677						
Btm. Log Inter.	6670	···	* - 1-			·	
Top Log Inter.	210'						
Casing—Driller	85/2 @, 210'			@		@	. —
Casing—Welex	1 2 0 1				<b></b>		
Bit Size	7%"			. ::	· — · · [···		
Type Fluid in Hole	DRILLING, MUD		·		·- ·		
Dens. I Visc.	9.2 150						
pH   Fluid Loss	8.0 117 ml		ml_		_ml		ml
Source of Sample	FLOW LINE						
R <sub>r.</sub> @ Meas. Temp.	3.0 @80 F	<u>@</u>	<u> </u>	@	F.	@	°F
R <sub>mt</sub> @ Meas. Tomp.	2.8@ U5 F	@_	F	@	"F	. (0)	<u>*</u> F
R @ Meas. Temp.	3.3@ 45F	<u>(å)</u>	"F	<u>(w</u>	"F	@	<u>•F</u>
Source R R R	MEASURED	<u></u>		!			
R_@BHT	1.35@200"F		<u>"F</u>	<u>(e)</u>	<u>`</u>		E.
Time Since Circ. 3 Hours.			-				
Max. Rec. Temp	200°F @ TD	"F@		"F@			
Equip. 1 Location	1893 IFARHING	<u> </u>					
Recorded By	E.C. Collins			· <del></del>			[
Witnessed By	Mr. Fagretius				<u>_</u>		
AHOH-AA .05845	-						

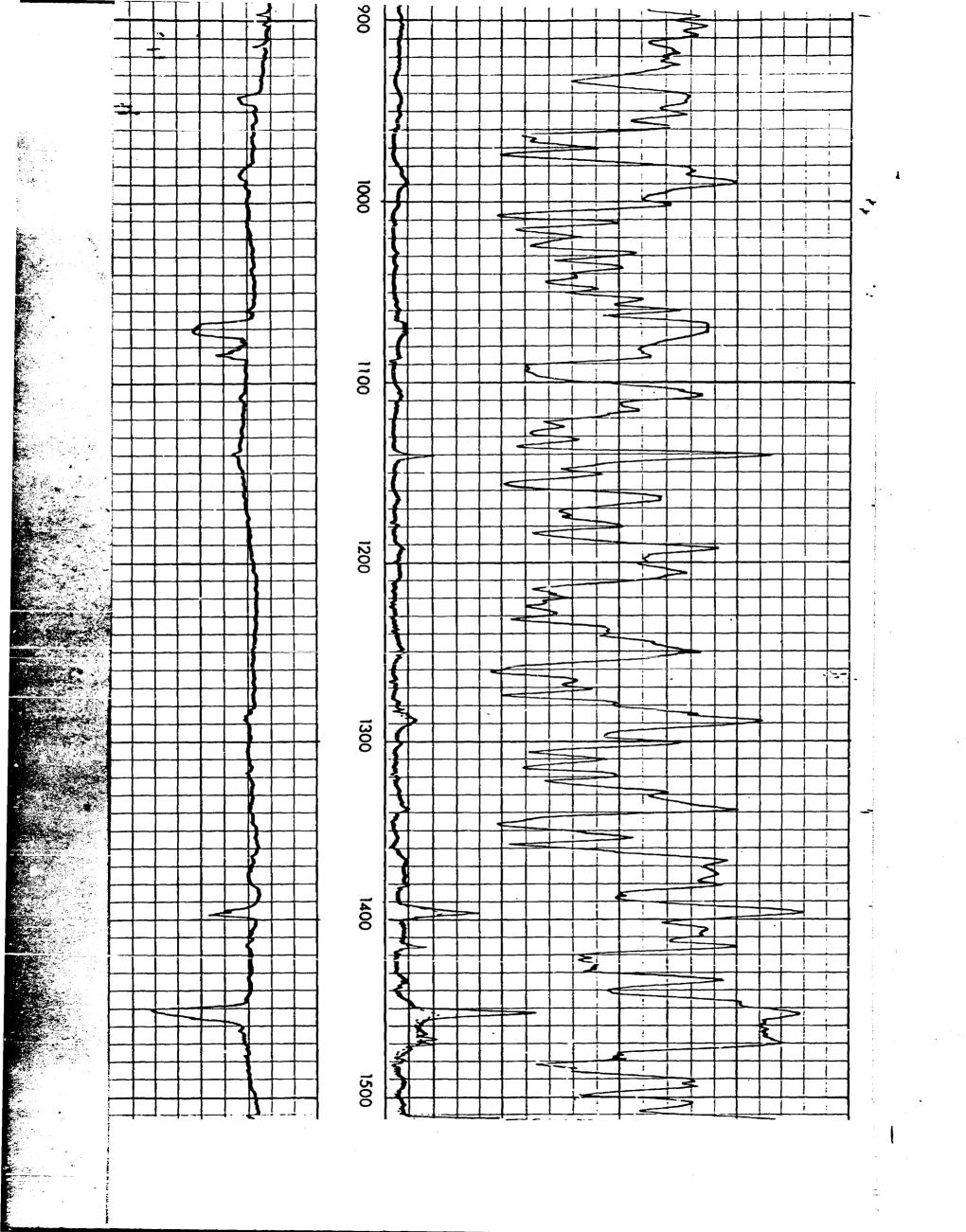
Case No	6586	
Exhibit No	. 11	

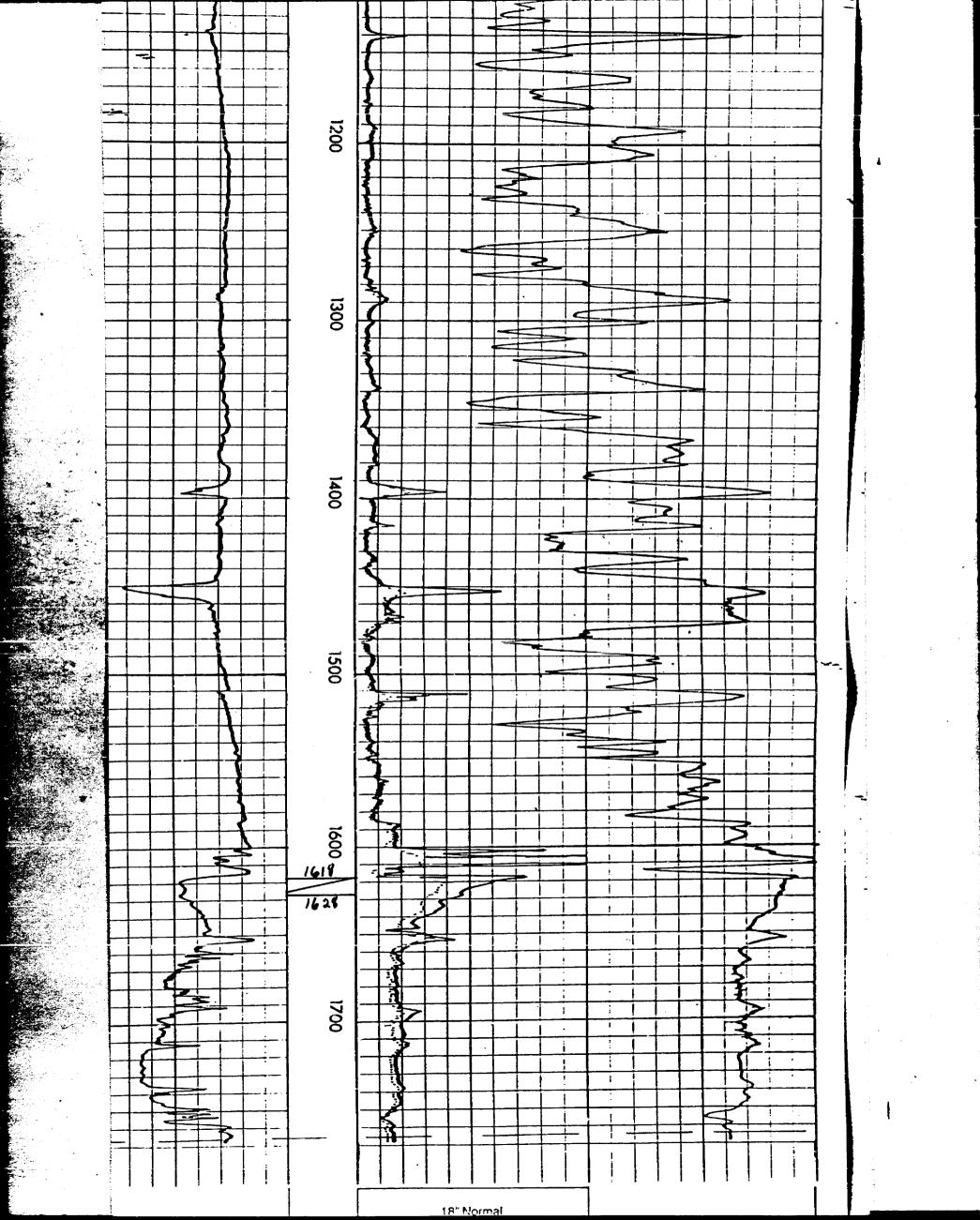




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	State	WELL	DI	NERO #1					
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NAN TIO	JUAN	COUNTY	SΛ	N JUAN		STATE NI	IV M	EXICO	
1 2 2 S	[경키]	Location					Othe	r Services:	
COMPANY DUGAN PRODUCTION CORPORATION WELL DINERO #1	FIELD WILDCAT	1460	F	NL - 810	' Fl	EL .:		NONE	
COMI	FIELD	Sec. 13	TΨ	n 30N 1	Roe	14K			
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Log Measure	Januari	GROUND LEV				Perm. Datum	Elev.	D.F.	
Drilling Mea:	sured Fro	m GROUND LI	VE					G.L. 5890	
Date		8-14-78				L			
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DepthWe		1771'				<b> </b>	·	ļ	
Btm. Log Int		1765'			<del></del> -	<b></b>			
Top Log Inte		48'				·			
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Casing—W	EIBX	4-3/4"	<b>)</b>			<del> </del>		<del></del>	
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Source of S		MUD PIT	-111	<del></del>		<u> </u>		•	
R @ Meas		4.5 @ 70	°F	@	°F	@	°F	@	•F
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R_@BHT		@	°F	@	۰۶	@	۰F	@	•E
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Case No	6586
Exhibit N	o. 4c

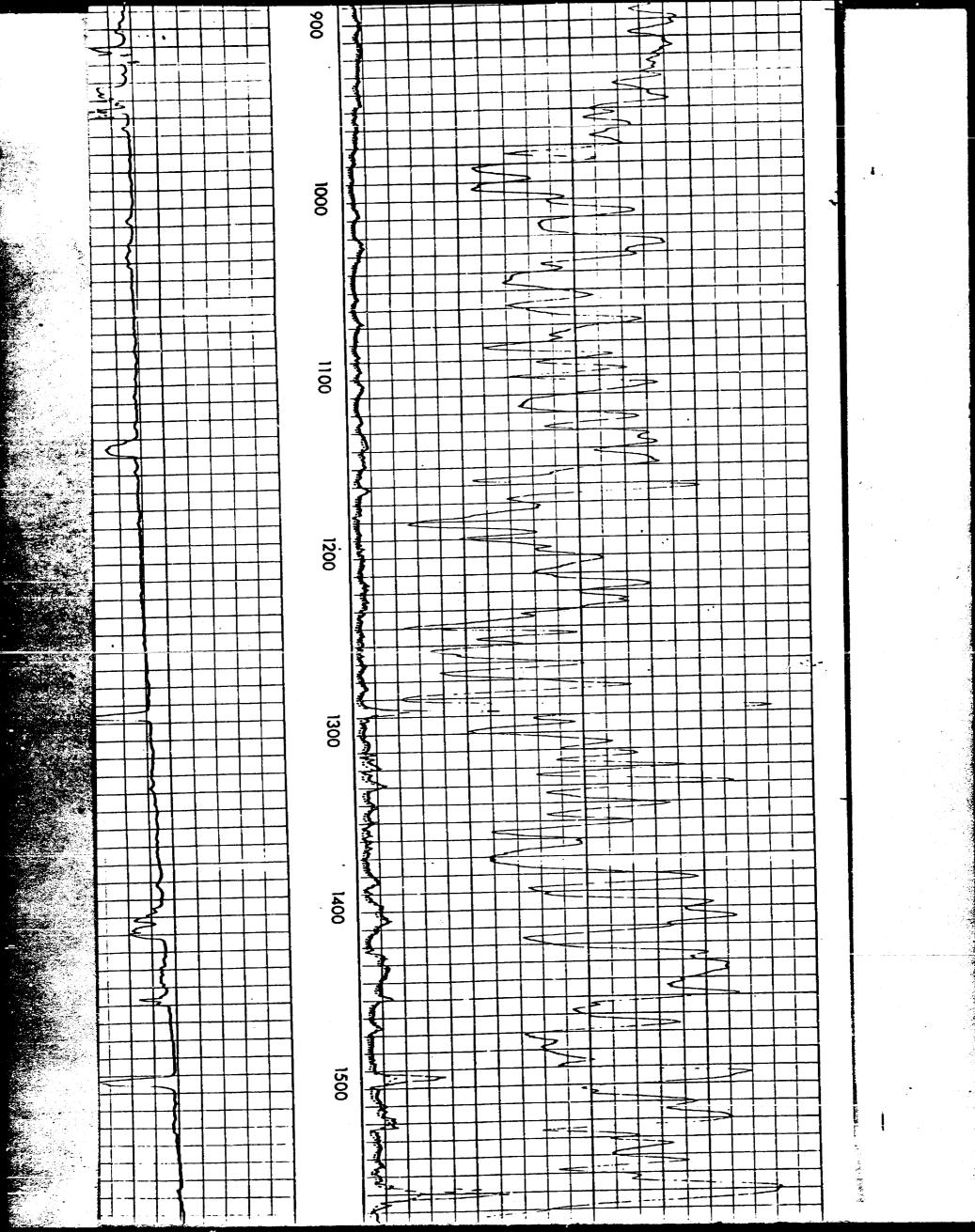


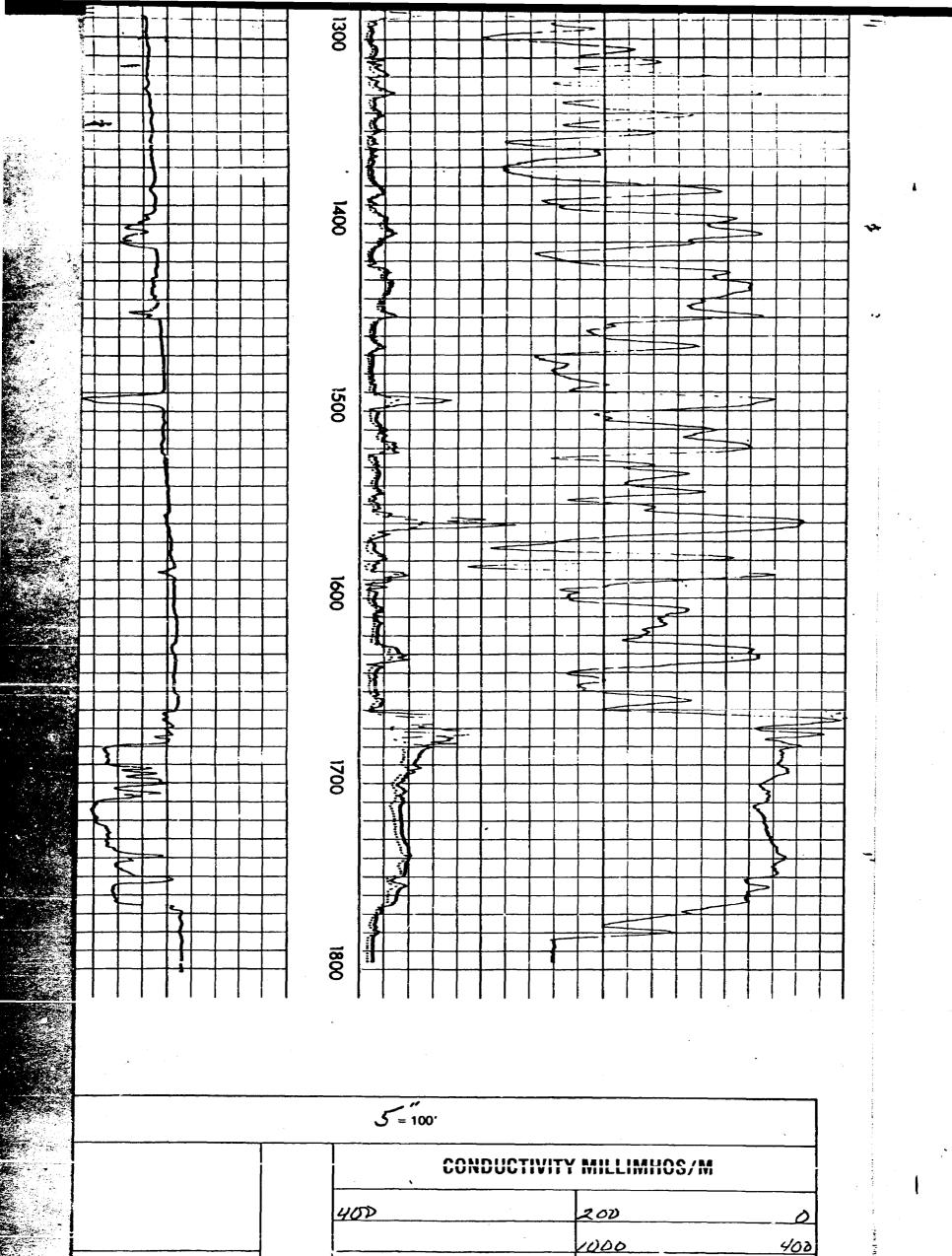


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Date Run No. Depth—Driller Depth—Welex	7-28:15 ONE 1500						
Btm. Log Inter. Top Log Inter. Casing—Driller	1794 Supt 5 17 @63	@		<u>@</u>		@	
Casing—Welex Bit Size Type Fluid in Hole	5 18 0 360 Fresh Warren	4311	70_		-		
Dens I Visc.  pH I Fluid Loss  Source of Sample	Mud P.T	1 0	ml		ml 'F	l 	ml T
R <sub>m</sub> @ Meas. Temp. R <sub>m</sub> @ Meas. Temp. R <sub>m</sub> . @ Meas. Temp. Source R <sub>m</sub> R <sub>m</sub> .	6.0 @ 66 F 6.0 @ 74 F 5.0 @ 70 F	@ 0	*F	<u>@</u> <u>@</u> I	"F "F	(a) (b)	*F
R <sub>m</sub> @ BHT Time Since Circ Max. Rec. Temp	@ 'F //WUK "F@TITM	e •F@	•F	°F@	°F	@ *F@ !	*F 
Equip. 1 Location Recorded By Witnessed By	PShikk C Parket	2 CRTS	Ø1:				

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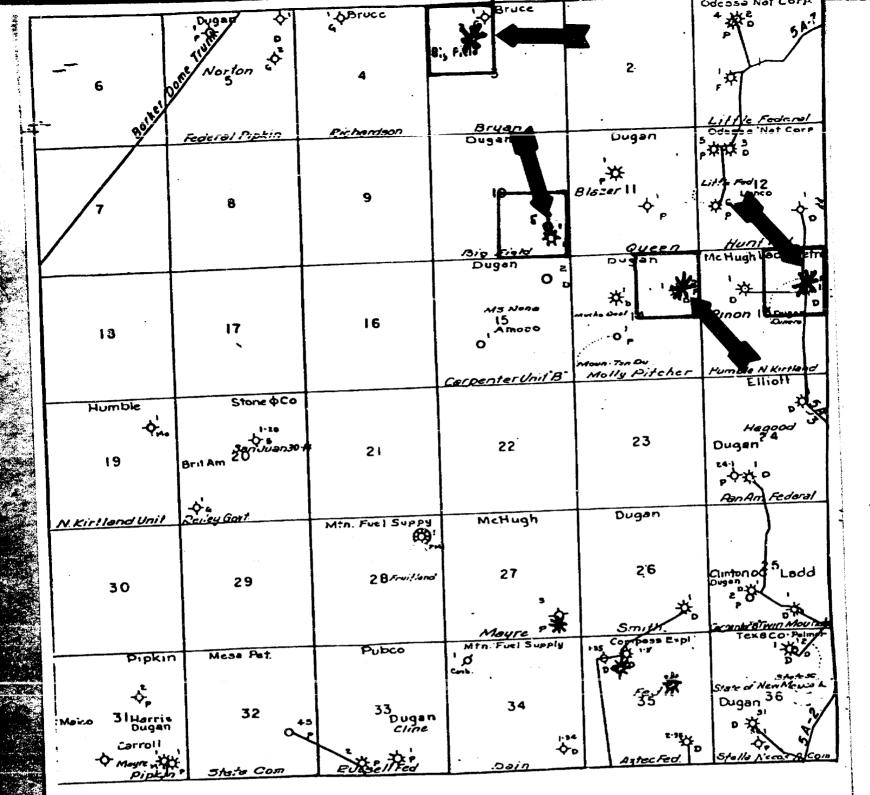
Case No	6586	
Exhibit No.	. 41	





RESISTIVITY OHMS M<sup>2</sup>/M

ENTIAL MILLIVOLTS



Township 30 North, Range 14 West, N.M.P.M.

Dedicated Acreage
Big Field #2 Well 🧩
Big Field #5 Well
Dinero #1 Well *
Molly Pitcher #2 Well

APPLICATION FOR	
DOWNHOLE COMMINGLING	
BY DUGAN PRODUCTION CORP.	
Big Field #2, Big Field #5	
Dinero #1, and Molly	•
Pitcher #2 Wells.	

Case No	6586	
Fxhibit N	lo. \	

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30	<b>41</b>	78	<b>3</b> 7	26	<b>25</b>
<b>31</b>	32	<b>33</b>	34	35 <sup>-</sup>	36

Township 30 North, Range 14 West, N.M.P.M.

#### 1978 PRODUCTION

Conner Fruitland Pool —	Big Field #2 Well
San Juan Undesignated Pictured Cliffs Pool —	Big Field #5 Well 🛪 Dinero #1 Well 🔻
Twin Mounds Pictured Cliffs Pool	Molly Pitcher #2 Well
Dedicated Acreage -	

Case No	6586
Exhibit No	. a

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Dugan Production Corp. Big Field #2

#### MORNING REPORT

- Moved in and rigged up Morrow Drlg Co. Spudded 7-7/8" hole @ 11:00 a.m. Drlg to 65'. Ran 2 jts 5-1/2" OD 14# ST&C csg. TE 63.34' set @ 65' GR. Cemented by Woodco. Cemented w/35 sx. Good cement to surface. Job complete @ 2:30 p.m. 10-13-78.
- 10-15-78 Depth 500'. Drlg 4-3/4" hole w/wtr.
- 10-16-78 Depth 1020'. Drlg 4-3/4" hole w/wtr.
- 10-17-78 Drlg 4-3/4" hole to 1305' TD. Moved in and rigged up Birdwell Logging Co. and ran IES log to TD.
- TD 1310'. Ran 42 jts 2-7/8" OD 6.4# CW-55 10R reg tbg for csg. TE 1297.50' set @ 1297' GR. Preflushed hole w/100 gals mud sweep. Reciprocated pipe and had good circulation while cementing. Cemented w/50 sx 65-35 w/12% gel w/1/4# cello flake per sx followed by 75 sx class "B" w/1/4# cello flake per sx. Total slurry 214 cu ft. Bumped plug w/1500 psi, released to 750 psi. Shut in. POB 12:45 p.m. 10-17-78.
- Rigged up Drake Well Service swabbing unit and Blue Jet perforators. PBTD 1275'. Ran GR, collar locator and Neutron correlation log. Swabbed hole down to approx 1000'. Perforated 1198-1208' zone on correlation log, 10 holes 1 spf w/2-1/8" bi wire glass jets. Swabbed well dry on 1st run, waited 15 mins. swabbed dry hole, no sign of gas or water entry. Loaded hole with 4 Bbl water, fluid level @ 700'. Perforated 1078-1092 zone on correlation log, 14 holes 1 spf w/2-1/8" bi wire glass jets. Perforated 1068-1078 zone on correlation log, 10 holes, 1 spf w/2-1/8" bi wire glass jets. Swabbed hole, recovered load water and coal. Swabbed hole dry, waited 15 min. swabbed again, no water, slight amount of gas ahead of swab.

709 BLOOMFIELD RD. . P. O. BOX 234 . FARMINGTON, NEW MEXICO 87401 . PHONE 505-325-0238

Case No	6586
Exhibit No	. 3a

Dugan Production Corp. Big Field #2 Page 2

10-28-78

Rigged up Allied Services, Pumped 125 gal 15% HCl 1-1/2 B/M, dropped 11 ball sealers, pumped 125 gal 15% HCl 0 1-1/2 B/M, dropped 11 ball sealers, displaced acid w/7 Bbl water 0 1-1/2 B/M. Breakdown pressure of 1700 psi occurred while pumping 4th bbl of acid, estimated 300 ft of water in hole. Ball sealer action occurred during 2nd bbl water displaced, pressure to 1100 psi. Displacement pressure 700-500 psi. Swabbed hole dry w/2 runs, no gas ahead of swab, waited 15 min swabbed again swabbed 1/4 bbl acid tasting water, waited 15 min, swabbed again swabbed 1/4 bbl acid tasting water. Shut well in.

6-6-79

Foam fraced well by Nowsco and Western Co w/70 quality foam. Used 18 gals adafoam, 13,000# 10-20 sand, 71.5 Bbls wtr., 71,600 SCF of nitrogen (Had to cut frac job short of planned job due to Western Co. blender failure). Dropped 20 ball sealers in one stage - 50 psi increase when balls hit formation ITP 1650 psi, Min 1600 psi, Max 1650 psi, Ave 1650 psi, IR 15 B/M foam, ISBP 1050 psi, 15 min std pressure 1050 psi - left well shut in two hours opened to atmosphere through 3/4" choke.

6-8-79

Moved in and rigged up FWS swabbing unit. Ran 36 jts 1-1/4" OD 2.4# CW-55 10R EUE tbg. TE 1175.67' set @ 1174' GR. Baker Model "C" packer @ 1143' in set down position w/l jt tail pipe. Landed tbg and nippled up well head. Started swabbing.

Case No	6586
Exhibit No.	34

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> Dugan Production Corp. Dinero #1 1460' FNL - 810' FEL Sec 13 T30N R14W San Juan County, NM Elevation 5890' GR

#### MORNING REPORT

- 8-11-78 Moved in and rigged up Morrow Drlg Co. Spudded 7-7/8" hole @ 8:00 a.m. Drlg to 40'. Ran 1 jt 5-1/2" OD 14# ST&C csg. TE 39.6 set @ 40' GR. Cemented to surface w/8 sx cement. Job complete 9:30 a.m. 8-10-78. WOC 10 hrs.
- 8-12-78 Depth 1430'. Drlg 4-3/4" hole w/wtr.
- 8-13-78 Depth 1580. Down 20 hrs for pump repair
- 8-14-78 TD 1770'. Prep. to run logs.
- Ran Welex IES log to TD 1770'. Rigged up csg tools. Ran 61 jts 2-7/8" OD 6.4# J-55 10R NEUE tbg for csg. TE 1768.32' set @ 1767' GR. Had good mud returns and reciprocated pipe while cementing. Cemented w/60 sx 65-35 w/12% gel w/1/4# flo cele per sx followed by 75 sx class "B" neat w/1/4# flo cele per sx. Total slury 246 cu ft. Preflushed hole w/250 gals CW-7 mud wash. Bumped plug w/2000 psi. Released press held OK. POB 4:57 p.m. 8-14-78.
- 8-23-78 Moved in and rigged up FWS pulling unit. GO Wireline ran gamma ray correlation and collar logs. PBTD 1733'. Swabbed 2-7/8" csg down to 1350'. Perf w/l 2-1/8" glass jets per foot 1618-1628' (10 holes). Made one swab run to bottom. Well kicked off making estimated 150 MCFGPD.

709 BLOOMFIELD RD. . P. O. BOX 234 . FARMINGTON, NEW MEXICO 87401 . PHONE 505-325-0238

Case No	6586	
Exhibit N	o. 3b	

(May 1963)	U TED STATES	SUBMIT IN THE CITE	~
_ DEPA	ARTML IT OF THE INTER	IOK verse side)	5. LEASE DESIGNATION AND BERIAL NO.
	GEOLOGICAL SURVEY		SF 079070
	NOTICES AND REPORTS		
(1)0 not use this form for Use "Al	proposals to drill or to deepen or plug "PLICATION FOR PERMIT—" for such p	back to a different reservoir. proposals.)	
1.			7. UNIT AGREEMENT NAME
THE THE STATE OF STATE OF	HER		
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
Dugan Producti	on Corp.		Dinero
	-A NH 07403		J. Walle Ro.
4. LINCATION OF WELL (Report local	ngton. NM 87401 ation clearly and in accordance with any	State requirements.	10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface			Wildcat PC
1460'	FNL - 810' FEL		11. SEC., T., E., M., OR BEK. AND RURYMY OR ABEA
			第二章 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			Sec 13 130N R14W
14. PERNIT NO.	15. ELEVATIONS (Show whether Di	r, RT, GR, esc.)	12. COUNTY OF PARISH 13. STATE-
	5890' GR		San Juan
16. Chec	k Appropriate Box To Indicate 1	Nature of Notice, Report, or	Other Data: # # # # # # # # # # # # # # # # # # #
NOTICE OF	INTENTION TO:	sanoa	опки веголи от ставо в под в п
TEST WATER BRUT-OFF	PULL OR ALTER CASING	WATER SHOT-OFF	REPAIRING WELL
PRACTURE TREAT	MULTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIE	ABANDON*	EBOOTING OR ACIDIZING	ABANDONNENT*
ESPAIR WELL	CHANGE PLANS	(Other)	tbg = x
(Other)		Completion or Recom	is of multiple completion on Well = = pletion Report and Log form.) = = = =
proposed work. If well is	en operations (Clearly state all pertines directionally drilled, give subsurface loss	it details, and give pertinent date: itions and measured and true verti	s, including estimated date of starting any cal depths for all markers and zones perti-
nent to this work.) *			
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18. I bereby certify that the foregr	nk is true and correct		
SIGNED 15000		etroleum Engineer	DATE -11-28-78-
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APPROVED BY	TITLE		DATE
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	*See Instruction:	s on Reverse Side	5

Case No	6586	
Exhibit No.	37	

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Dugan Prouduction Corp.
Dinero #1
1460' FNL - 810' FEL
Sec 13 T30N R14W
San Juan County, NM
Elevation 5890' GR

#### REMEDIAL OPERATIONS

- 6-4-79 Moved in and rigged up FWS swabbing unit. Blew well down. Pulled 1-1/2" tbg. Removed well head and installed master valve for frac. Shut in. Rigged down FWS.
- Foam fraced w/Nowsco and Western Co w/70 quality foam. Used 25 gals adafoam, 103.5 bbls wtr and 128,800 SCF of nitrogen. Started pad pressured up to 4000 psi blew well down and pressured up and broke down w/wtr. Formation broke down and fraced as follows: ITP 1800 psi, Min 1700 psi, Max 1800 psi, Ave 1750 psi. Dropped 15 ball sealers in one stage got 50 psi pressure increase when balls hit. Average IR foam 15 B/M. ISDP 1300 psi. 5 min stdg press 1200 psi. Left well shut in two hours. Opened to atmosphere through 5/8" pos choke.
- 6-7-79 Moved in and rigged up FWS swabbing unit. Well unloading water and gas. Making estimated 500 MCF. Re-ran 50 jts 1-1/2" tbg. TE 1620.59' set 0 1618'. Tagged sand 0 1628' cleaned out to 1653'. Landed tbg and nippled up well head. Put well back on production. Rigged down FWS.

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Case No	6586	
Exhibit No.	37	

### dugan production corp.

Dugan Production Corp. Molly Pitcher #2 1590' FNL - 790' FEL Section 14, T30N R14W San Juan County, NM Elevation: 5950' GR

#### MORNING REPORT

- 7-26-78 Moved in and rigged up Morrow Drlg. Cc. Spudded 8-3/4" hole @ 9:00 a.m. Drlg to 65'. Ran 2 jts 7" OD 26# LT&C csg. TE 64.19' set @ 64' GR. Cemented to surface w/35 sx class "B" neat w/2% CaCl. POB 11:10 a.m. 7-25-78.
- 7-27-78 Depth 1133' on bottom with new bit. Drlg with water.
- 7-28-78 TD 1800'. Logs on bottom.
- 7-29-78 Rigged up csg tools. Ran 61 jts 2-7/8" OD 6.4# CW-55 10R NEUE tbg for csg. TE 1797.97' set @ 1797' GR. Had good mud returns and reciprocated pipe while cementing/ Preflushed hole w/100 gals mud sweep. Cemented w/60 sx 65-35 w/12% gel 1/1/4# cello flake per sx followed by 75 sx class "B" w/1/4# cello flake per sx. Total slury 239 cu ft. Bumped plug w/1500 psi. Released to 750 psi. Shut in. Circulated trace of cement. POB 11:55 a.m. 7-28-78.
- 8-23-79 Moved in FWS swabbing unit. GO Wireline ran Gamma Ray correlation and collar logs. PBTD 1778'. Swabbed 2-7/8" csg down to 1200'. Perf by GO Wireline 1679-1689', 1586-1589' and 1492-1497'. Swabbed well down no indication of water entry w/very slight show gas.
- 8-31-79 Acidized well by Allied Services w/250 gals 15% reg acid w/2 gals Tretolite former. Dropped 15 ball sealers in acid some ball action. Breakdown pressure 1750 psi back to 750 psi @ 1-1/2 B/M. Had 200 psi increase when ball hit. Flushed w/10 bbls water. Swabbed down. Slight increase in gas no indicated water entry.
- Foam fraced w/Nowsco and Western Co w/70 quality foam. Used 25 gals. adafoam, 22,000# 10-20 sand, 103.5 bbls wtr and 128,800 SCF of Nitrogen Dropped 15 ball sealers in one stage got 25 psi pressure increase when balls hit perfs. Initial frac 1750 psi Max 1900 psi, Min 1750 psi, Ave 1850 psi. Average IR 15 B/M foam. Left well shut in one hour. Opened well to atmosphere unloading heavy mist of water and estimated 350 MCFGPD after eight hours.

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Case No.	6586	
Exhibit I	No. 3	_

Dugan Production Corp. Molly Pitcher #2 Page 2

6-7-79 Moved in and rigged up FWS swabbing unit. Well unloading wtr and gas. Ran 52 jts 1-1/4" OD 2.4# CW-55 10R EUE tbg. TE 1683.53' set @ 1681'GR Had cross pin in bottom for swab stop. Landed tbg and nippled up well head. Well came around thru tbg. Rigged down FWS.

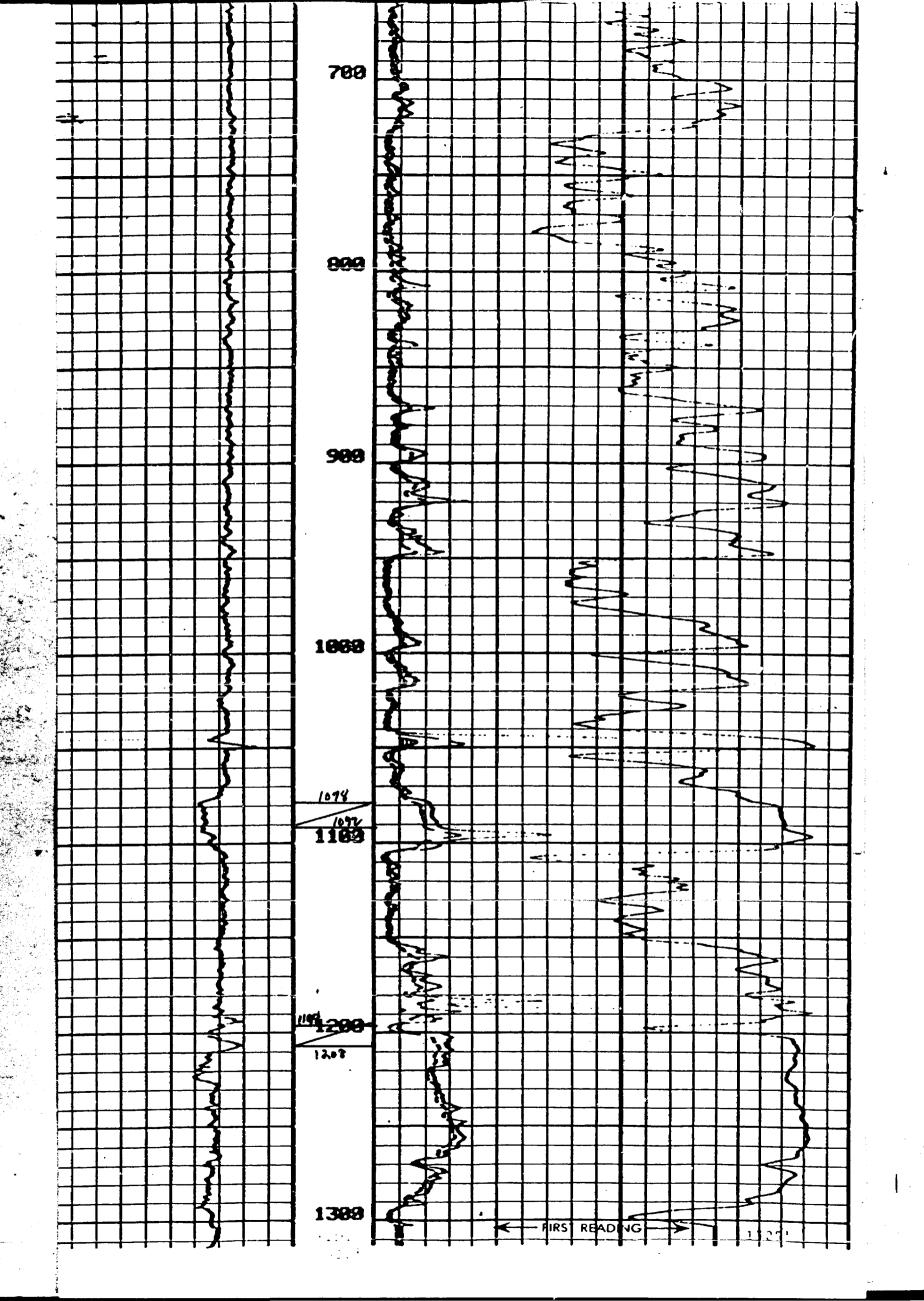
APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

Case No. 6586

Exhibit No. 3c

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1/2	FIELD		WILDC	AT				<del></del>
<b>!</b> '	COUNTY		SAN J	UAN	ST.	ATE_N	EW MEX	100
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121			13 N	•	30			
	SEC. 3	TWF	30N		E. 14W			
PERMANENT DATU	M GROUND	LEVEL	•		v. <u>5662'</u>		K.B. N.	
LOG MEASURED FR	OM G.L.		FT. AB	OVE P	ERM. DATUM		D.F. N.A	
DRILLING MEASURE	D FROM GI	SOUND	LEVEL		•		G.L. 566	62'
DATE	10/16/78				· · · · · · · · · · · · · · · · · · ·	1		
RUN NO.	ONE				<del></del>			
DEPTH - DRILLER	1310'			1				
DEPTH-LOGGER	1310'							
BTM. LOG INTER.	1305'							
TOP LOG INTER.	0'							
CASING-DRILLER	5 1/2@ 40	) 1	@		@		@	
CASING-LOGGER	NOT REACH	IED				١٠		
BIT SIZE	4 3/4"					<u> -</u> _		
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PH FLUID LOSS	N.A.  50	ml		ml	l	m!		mł
SOURCE OF SAMPLE	PIT			0.5		0.5		
Rm@MEAS.TEMP.	1.0 @ 78			°F °F	<u> </u>	ot ot	<u> </u>	o F
Rmf@MEAS,TEMP,  Rmc@MEAS,TEMP.	1.0 6 76		<u></u>	OF	<u>@</u>	OF		0 F
	.85 @ 76		<u> </u>			<u> </u>	<u></u>	
Rm @ B. H. T.	PRESS PRE			°F		o F		OF.
TIME SINCE CIRC.	€8. 2 HOURS	<u> </u>		- F			@	
MAX. REC. TEMP.	820	o F		0 F		05	<u>.</u>	0 F
EQUIP. LOCATION		159		$\dashv$		1	1	
	MARTINEZ							
neconoto o.	N.Y-KIL I 1181			,				

Case No.	6586	·
Exhibit	No. Ya	

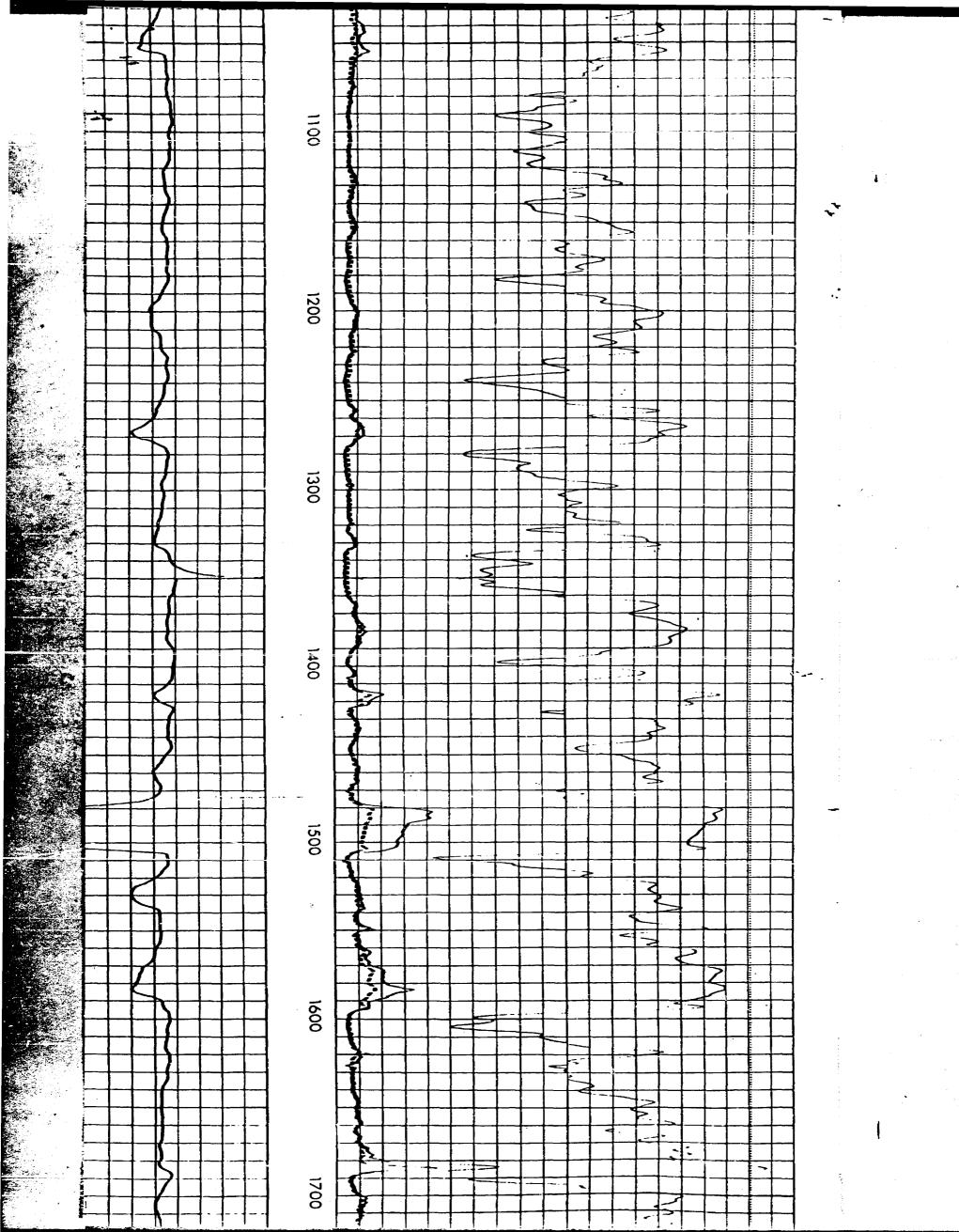


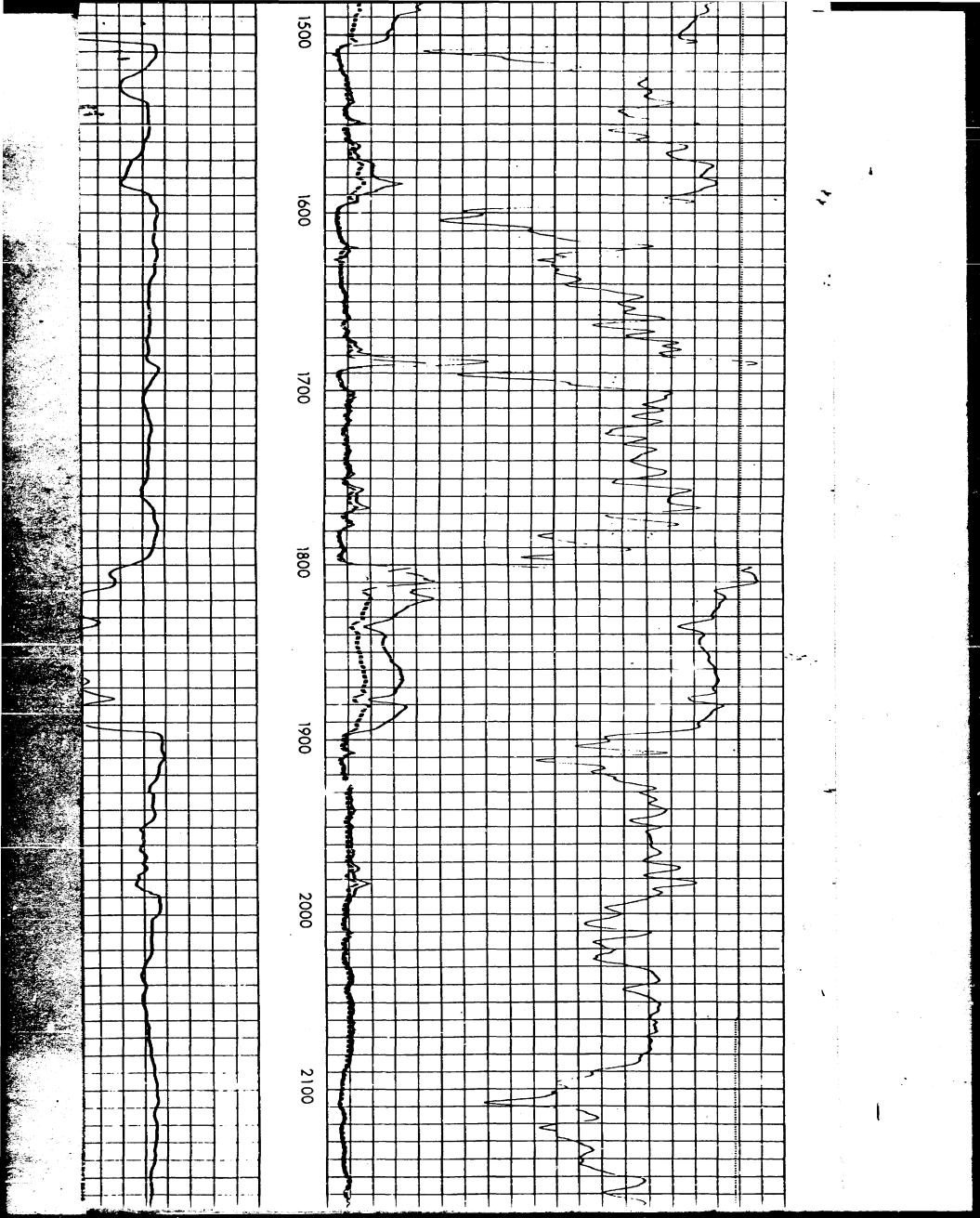
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## SINDUCTION :• LELECTRIC

	COMPANY_DUGAN_PRODUCTION_CORPORA	COMPANY_DUGAN_PRODUCTION_CORPORATION					
State	WELLBIG_EIELD_#	PELL BIG FIELD #1					
	FIELD BASIN DAKOTA						
		ي رخص الم					
1 1 1 1 1 1		W NEXICO					
	Location	Other Services:					
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	790'FSL& 790'FEL	C 5					
\lambda     \lambda \frac{7}{7}		CDL					
COMPANY_WELL	Sec 10 Twp 30N Rge 14 W						
		Elev.: K.B6153					
	KELLY BUSHING 10 Ft. Above Perm. Datum						
Drilling Measured Fro	MELLY BUSHING	GL 6143					
Date	3-25-79						
Run No.	ONE						
Depth—Driller	6680'						
Depth-Welex	6671						
Btm. Log Inter.	6678'						
Top Log Inter.	210'						
Casing—Driller	85/6 @ 210' @ @	<u>@</u>					
Casing—Welex	210						
Bit Size	7%	· —					
Type Fluid in Hole	DRILLING MUD						
Dens I Visc.	9.2 150						
pH   Fluid Loss	9.0 117 ml 1 ml 1	_mi					
Source of Sample	FLOWLLINE						
R @ Meas. Tomp.	3.0 @ 80 F @ T @	F @ •F					
R <sub>m</sub> @ Meas. Temp.	1.8@U5 F @ F @	<u>F</u> @ •F					
R @ Meas. Temp.	3.3@ 65°F (e) °F (w)	"F @ *F					
Source R R	MEASURED 1						
R_@BHT	1.15@200°F @ °F @	<u>`F</u> <u>@ *F</u>					
Time Since Circ.	3 Hours						
Max. Rec. Temp.	700F@ TD F@ F@	*F@					
Equip. I Location	1893 FARMINGTON 1						
Recorded By	E.C. Collins						
Witnessed By	Mr. Fagretius						
LAHOH—AA .05845							

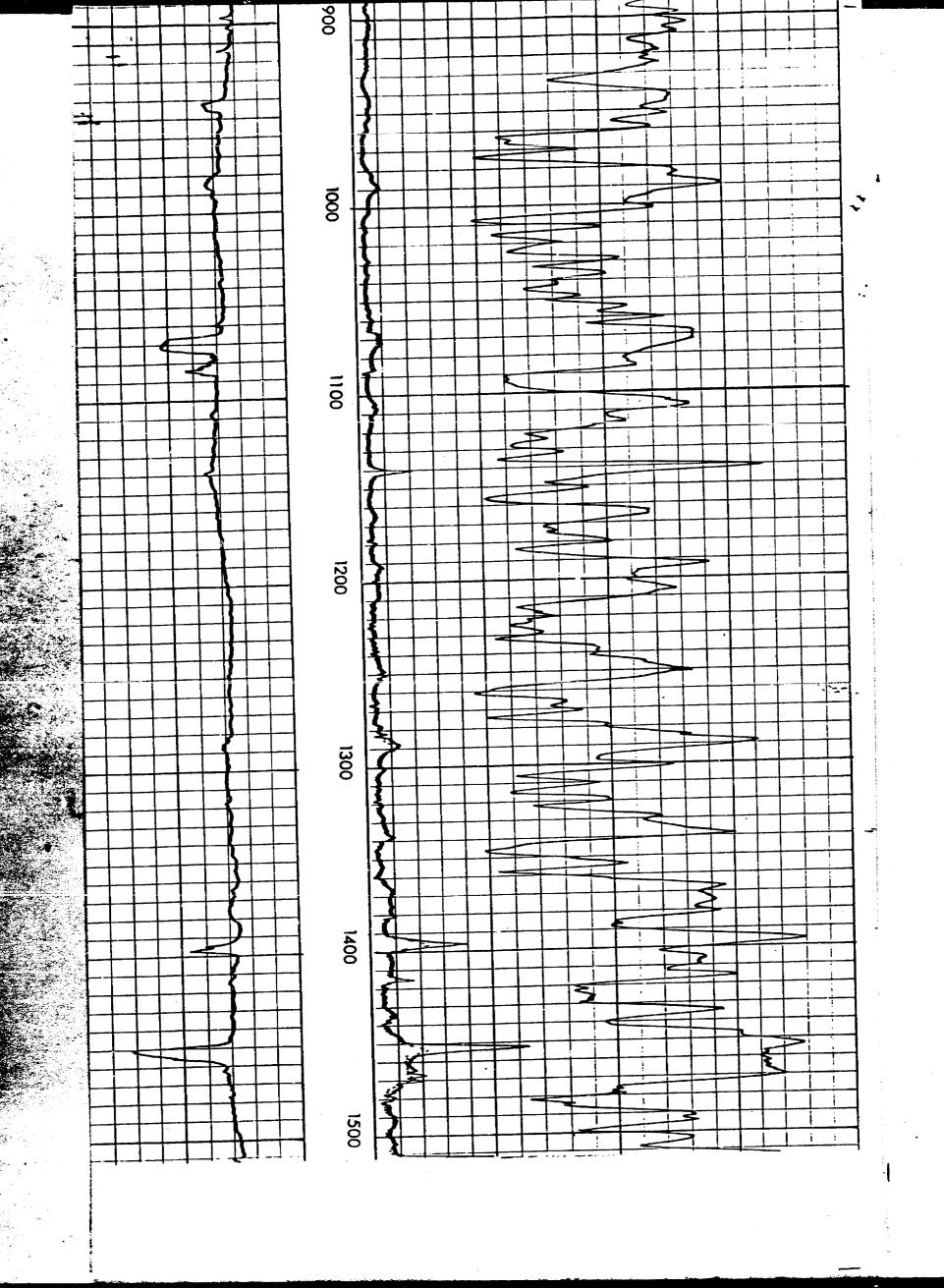
Case No	6586	
Exhibit N	10. 4b	

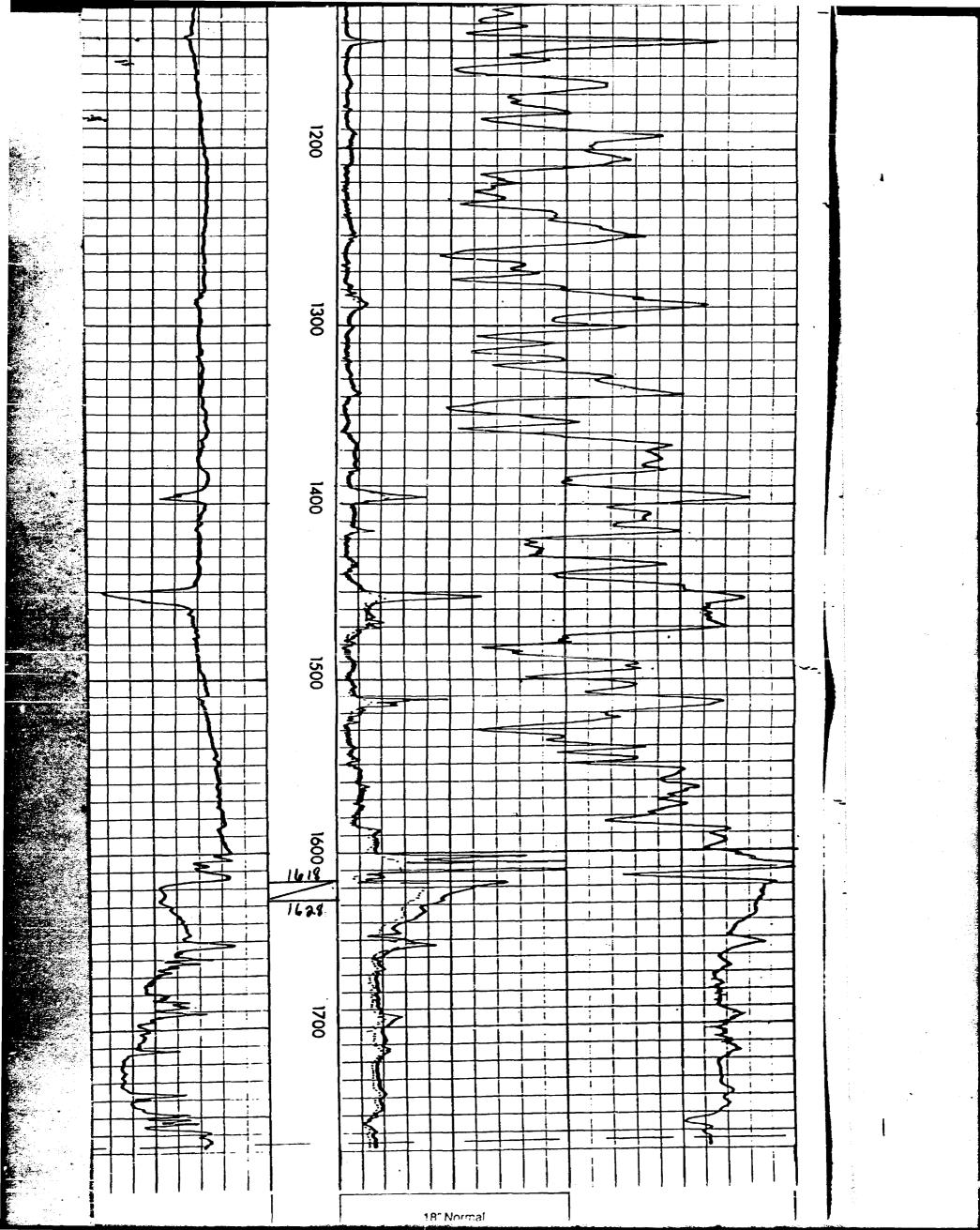




Tree of	AG AG	elle		>	IND	UG	TION	OE G	ECTR	IC
NOIL	N. MEX	СОМР	ANY	DUC	AN PRO	DUCT	10N COR	PORA'	TION	
	Crate	1 1		DIN	ERO #1			<del></del>		
PROI		FIELD		WIL	DCAT				····	···
NAT H	AT JUAN	COUN	TY	SAN	אגטע י		STATE	NEW M	MEXICO	
COMPANY DUGAN PRODUCT CORPORATION WELL DINERO #1	FIELD WILDCAT		n 1460'		)L - 81			Othe	er Services:	
Barmanasif	\	GROUNI	LEVE	1.	30N		14K 5890'	_   	.: K.B	
Log Measure	Jaium <u> </u> ed From	GROU	ND LEV	EL		IC V	Perm. Datui	1	.: K.B D.F	
Drilling Meas	sured F	om GROT	JND LE	VEL				_	G.L. 58	90'
Date		8-1-	4-78							
Run No.		ONE								
Depth-Dril		1770					<b>↓</b>	•	ļ	
Depth-We		177			<del></del>		<b> </b>		<del> </del>	
Btrn. Log In		176					<b></b>		<del> </del>	
Top Log Inte		$\frac{1}{7}$ , 48	3' @ 60				@	<u></u>	@	
Casing—Dr		7"	@ 60 @ 48				<del>@</del> -			
Casing — Wi	- POTA	4-3,		-+	<del></del>		<del> </del>		<del> </del>	
Type Fluid II	n Hole		ER BAS	E	<del></del>	- <del></del>	<del> </del>		!	
		MUD					<u> </u>		İ.	
Dens. I Visc				$\Box$			1	-	ī	
pH I Fluid l				ml		ml		<u></u>	1	ml
Source of Sa			PIT	_			<del> </del>		ļ	
ਜ_@ Meas						*F	@	°F		<u>*F</u>
R <sub>m</sub> @ Meas				<b>"</b> F	<u> </u>	<u>°</u> F	<u>@</u>	<u>°</u> F	<u>@</u>	*F
R <sub>m</sub> @ Mea	R		SURED	-		<u> </u>	<del>                                     </del>	<u></u>		<u>-</u>
R @ BHT	<u>'m</u>	PIEAS		•F	<del></del>	•F	@	•F	@	•F
Time Since	Circ.	11, 1	IOURS	-+					1	
Max. Rec. To	· · · ——		F@	$\neg \uparrow$	°F@		°F@		°F@	
Equip. I Lo		9699	FAR		GTONI				1	
Recorded B		P. 9	SHIRK	Y J	. LEEP	ER				
Witnessed E	Зу	K. I	AGREL	เปรี					L	

Case No.	6586	
Exhibit	No.	4 c





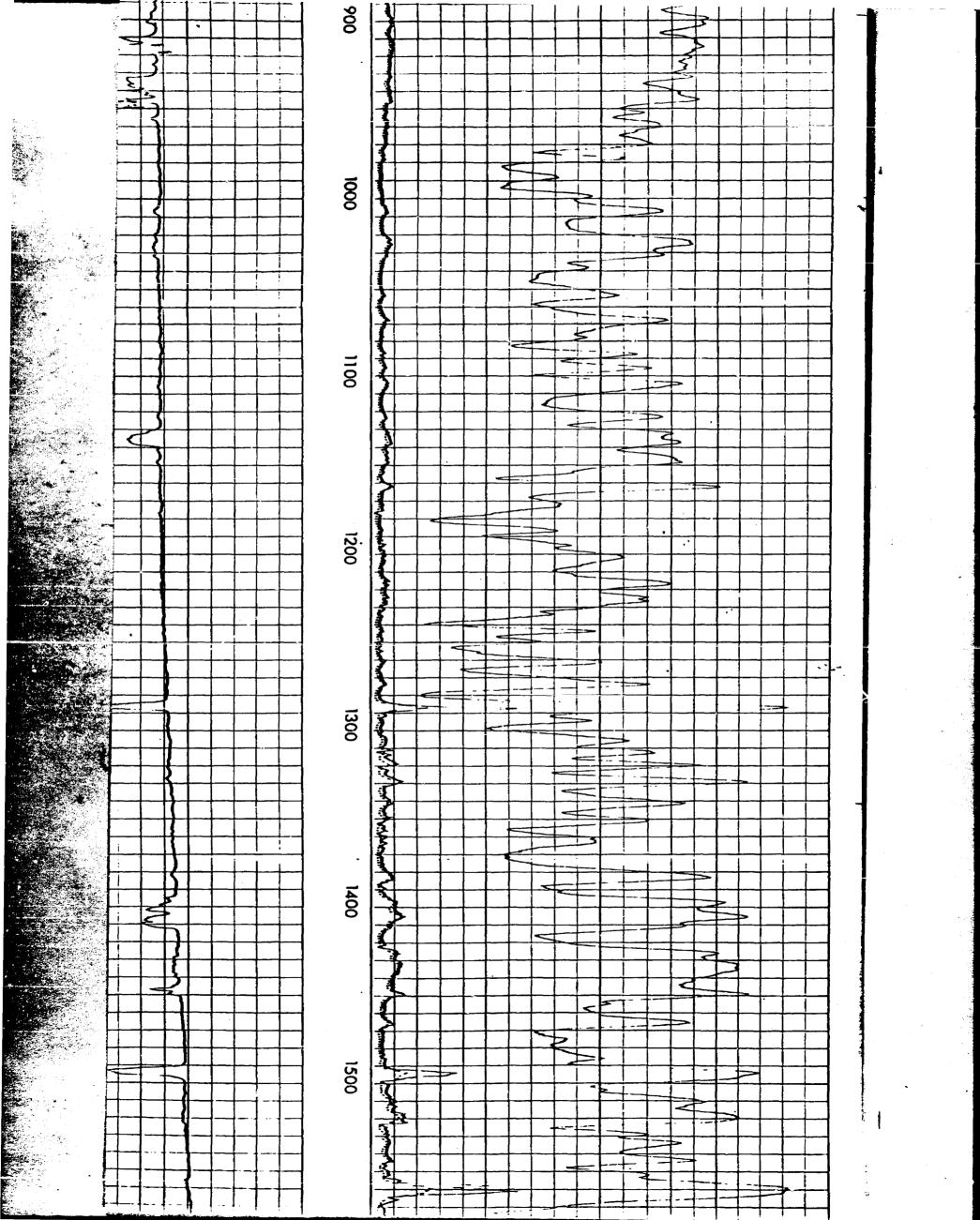
Wall File

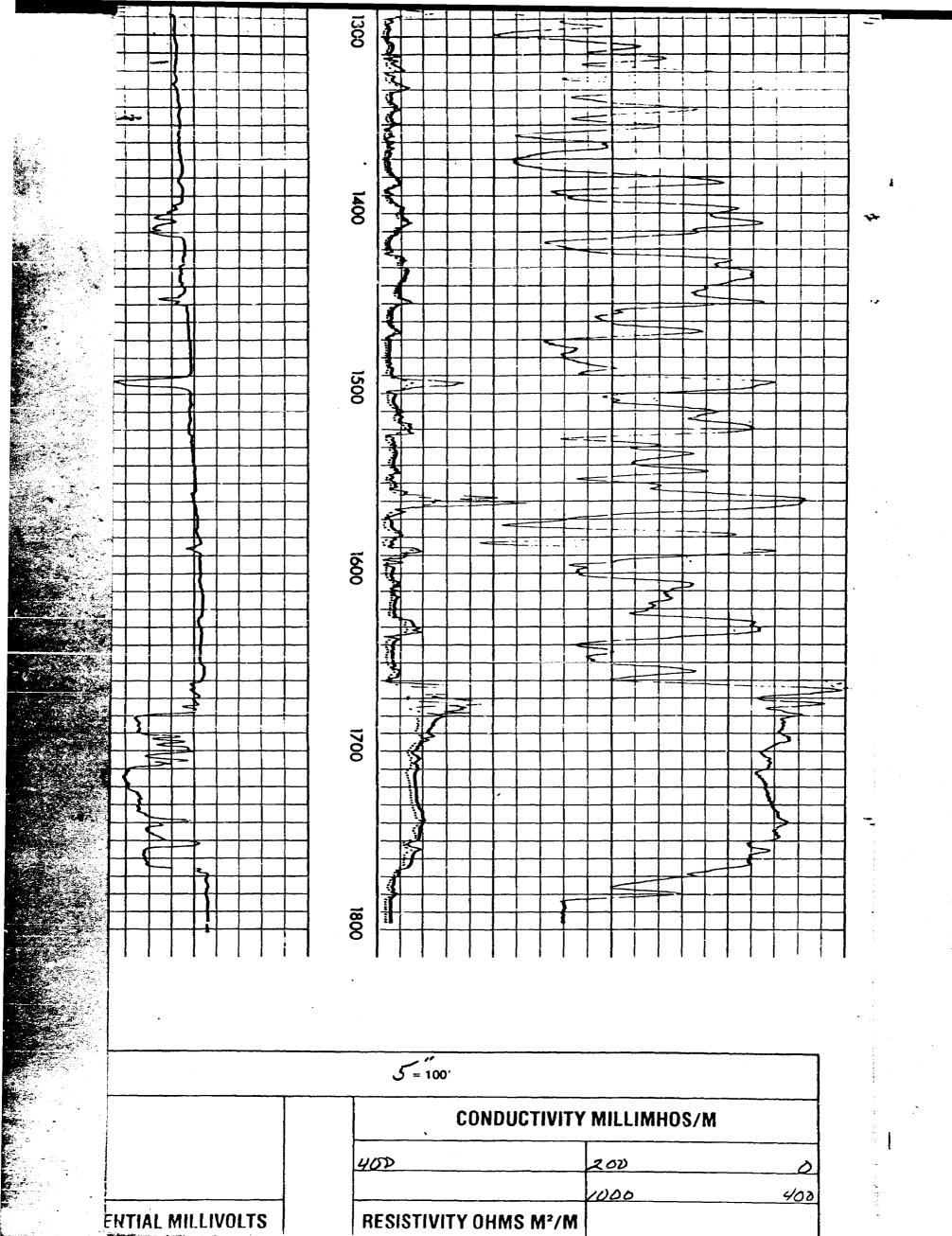


# SINDUCTION PELECTRIC SLOG

	COMPANY_Du	Fuel The	عزار	CTION (	200 F	DONG TI	\ <u>\</u>
State	WELL MO!	NELL MOSTY FITCHER #2					
	FIELD_ WI						
	COUNTY Say	Jan		STATE //	<u>ul p</u>	1/. x	`
	Location 1500	' FNL			Other S	Services:	
IN K	790'	FIL			NO	NE	į
COMPANY. WELL FIELD County	Sec	304	Rge	14 W			
Permanent Datum	Grand 1.			50	Elev 1	( R	
Log Measured From	• • • • • • • • • • • • • • • • • • • •			Perm Datum	l r	) F	
Drilling Measured From		, /			}	3.L 2.2.2	0
Date	7-28.15					•	
Run No.	ONE			-	- 1		
Depth—Driller	1500'				T		
Depth-Welex	1800						
Btm. Log Inter.	1794						
Top Log Inter.	Sunt						·
Casing—Driller	517 @63	@		@		@	
Casing—Welex	65			l			
Bit Size	518 0 360	45/4	₹ბ	7 )			
Type Fluid in Hole	Fresh Wator				}		
Dens. I Visc.	- 1-				1	1	
pH   Fluid Loss	l - ml	1	m!	1	ml	1	mi
Source of Sample	Mud P.T						
R @ Meas. Temp.	6.0 @66°F	@	°F	ω	`F	<u>@</u>	۳F
R <sub>m</sub> @ Meas. Temp.	6.0 @74°F	@	°F	@	"F	@	°F
R (a) Meas. Temp.	50 @20F	@	°F	(a)	'F	(a)	°F
Source R R	Mrasidi. d	ı				1	
R_@BHT	@ °F	@	°F	@	°F ]	@	•F
Time Since Circ.	LAUR						I
Max. Rec. Temp	°F@TLTM	°F@		°F@		°F@	
Equip. I Location	96:25 11 1200			l l		1	}
Recorded By		2 CRES	\$				}
Witnessed By	C FarREL	eas					}
ALIOU AA 05045	•						

Case N	lo	6586	
Exhibi	t No.	44	





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Bertel	Federal Pipkin	Richardson	<i>Bryan</i> Qagan		Liffic Footnool
7	8	9		Dugan W Blazer II	Lifts Feel 2
18	17	16	Dugan 2  O D  Als None  15  Amore	Molly Pitcher	Mc Hugh Coc STR
Humble -oh. 19	Stone & Co	21	22 <sup>-</sup>	23	Hegond Dugen?
N.Kirlland Unit	Deviey Gort	Mtn. Fuel Suppy	the distance with	aU Dugan	Ann Federal
30	29	28 Fruitsend	Mettugh And Co	Dugan 26	Clinton od 5 Lodd
Pipkin	Mesa Pat	Pubco	Mtn. Fuel Subjety Of Conb.		Texe Co Paling
Malco 31 Harris Dugan	32 0.**	33 Dugan Cline	34	35	Dugan 36
Moyre THE	State Com	Edesell Fed	.5 <i>ejn</i>	Astec Fed.	Stelle Necat Alcon

# Township 30 North, Range 14 West, N.M.P.M.

Dedicated Acreage		
Big Field #2 Well	dild notions?	
Dia Fiald #F Wall	Lu Se Cric	
Dinara #1 Wall	prod 2.3 pm	20
Molly Pitcher #2 Well	* dell, comp, not on prod.	(6-15 Burs

APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

Case No	6586	
Exhibit No		

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7	8	٩	*	11	12 2825
18	17	16	15	*	637
19	20	રા	22	23	ત્રય
30	29	78	27	26	<b>35</b>
31 &25 EX	32	<b>33</b> 23 (K. 44) 21 (K. 42)	34	35	36

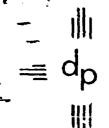
Township 30 North, Range 14 West, N.M.P.M.

## 1978 PRODUCTION

Conner Fruitland Pool -	Big Field #2 Well ** Big Field #5 Well **
San Juan Undesignated Pictured Cliffs Pool —	Dinero #1 Well ⊀
Twin Mounds Pictured Cliffs Pool	Molly Pitcher #2 Well 🔻
Dedicated Acreage	

APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells

Case No	6586
Exhibit No	. <u>a</u>



Dugan Production Corp. Big Field #2

#### MORNING REPORT

- Moved in and rigged up Morrow Drlg Co. Spudded 7-7/8" hole @ 11:00 a.m. Drlg to 65'. Ran 2 jts 5-1/2" OD 14# ST&C csg. TE 63.64' set @ 65' GR. Cemented by Woodco. Cemented w/35 sx. Good cement to surface. Job complete @ 2:30 p.m. 10-13-78.
- 10-15-78 Depth 500'. Drig 4-3/4" hole w/wtr.
- 10-16-78 Depth 1020'. Drlg 4-3/4" hole w/wtr.
- 10-17-78 Drlg 4-3/4" hole to 1305' TD. Moved in and rigged up Birdwell Logging Co. and ran IES log to TD.
- TD 1310'. Ran 42 jts 2-7/8" OD 6.4# CW-55 10R reg tbg for csg. TE 1297.50' set @ 1297' GR. Preflushed hole w/100 gals mud sweep. Reciprocated pipe and had good circulation while cementing. Cemented w/50 sx 65-35 w/12% gel w/1/4# cello flake per sx followed by 75 sx class "B" w/1/4# cello flake per sx. Total slurry 214 cu ft. Bumped plug w/1500 psi, released to 750 psi. Shut in. POB 12:45 p.m. 10-17-78.
- Rigged up Drake Well Service swabbing unit and Blue Jet perforators. PBTD 1275'. Ran GR, collar locator and Neutron correlation log. Swabbed hole down to approx 1000'. Perforated 1198-1208' zone on correlation log, 10 holes 1 spf w/2-1/8" bi wire glass jets. Swabbed well dry on 1st run, waited 15 mins. swabbed dry hole, no sign of gas or water entry. Loaded hole with 4 Bbl water, fluid level @ 700'. Perforated 1078-1092 zone on correlation log, 14 holes 1 spf w/2-1/8" bi wire glass jets. Perforated 1068-1078 zone on correlation log, 10 holes, 1 spf w/2-1/8" bi wire glass jets. Swabbed hole, recovered load water and coal. Swabbed hole dry, waited 15 min. swabbed again, no water, slight amount of gas ahead of swab.

709 BLOOMFIELD RD. . P. O. BOX 234 . FARMINGTON, NEW MEXICO 87401 . PHONE 505-325-0238

APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

Case No	6586	_
Exhibit No.	3a	

Dugan Production Corp. Big Field #2 Page 2

10-28-78

Rigged up Allied Services, Pumped 125 gal 15% HCl 1-1/2 B/M, dropped 11 ball sealers, pumped 125 gal 15% HCl 0 1-1/2 B/M, dropped 11 ball sealers, displaced acid w/7 Bbl water 0 1-1/2 B/M. Breakdown pressure of 1700 psi occurred while pumping 4th bbl of acid, estimated 300 ft of water in hole. Ball sealer action occurred during 2nd bbl water displaced, pressure to 1100 psi. Displacement pressure 700-500 psi. Swabbed hole dry w/2 runs, no gas ahead of swab, waited 15 min swabbed again swabbed 1/4 bbl acid tasting water, waited 15 min, swabbed again swabbed 1/4 bbl acid tasting water. Shut well in.

6-6-79

Foam fraced well by Nowsco and Western Co w/70 quality foam. Used 18 gals adafoam, 13,000# 10-20 sand, 71.5 Bbls wtr., 71,600 SCF of nitrogen (Had to cut frac job short of planned job due to Western Co. blender failure). Dropped 20 ball sealers in one stage - 50 psi increase when balls hit formation ITP 1650 psi, Min 1600 psi, Max 1650 psi, Ave 1650 psi, IR 15 B/M foam, ISDP 1050 psi, 15 min std pressure 1050 psi - left well shut in two hours opened to atmosphere through 3/4" choke:

6-8-79

Moved in and rigged up FWS swabbing unit. Ran 36 jts 1-1/4" OD 2.4# CW-55 10R EUE tbg. TE 1175.67' set @ 1174' GR. Baker Model "C" packer @ 1143' in set down position w/1 jt tail pipe. Landed tbg and nippled up well head. Started swabbing.

APPLIACTION FOR DUWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

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Case No	6586
Exhibit No.	34

Dugan Production Corp. Dinero #1 1460' FNL - 810' FEL Sec 13 T30N R14W San Juan County, NM Elevation 5890' GR

#### MORNING REPORT

- 8-11-78 Moved in and rigged up Morrow Drlg Co. Spudded 7-7/8" hole @ 8:00 a.m. Drlg to 40'. Ran 1 jt 5-1/2" OD 14# ST&C csg. TE 39.6 set @ 40' GR. Cemented to surface w/8 sx cement. Job complete 9:30 a.m. 8-10-78. WOC 10 hrs.
- 8-12-78 Depth 1430'. Drlg 4-3/4" hole w/wtr.
- 8-13-78 Depth 1580. Down 20 hrs for pump repair
- 8-14-78 TD 1770'. Prep. to run logs.
- Ran Welex IES log to TD 1770'. Rigged up csg tools. Ran 61 jts 2-7/8" OD 6.4# J-55 10R NEUE tbg for csg. TE 1768.32' set @ 1767' GR. Had good mud returns and reciprocated pipe while cementing. Cemented w/60 sx 65-35 w/12% gel w/1/4# flo cele per sx followed by 75 sx class "B" neat w/1/4# flo cele per sx. Total slury 246 cu ft. Preflushed hole w/250 gals CW-7 mud wash. Bumped plug w/2000 psi. Released press held OK. POB 4:57 p.m. 8-14-7E.
- 8-23-78 Moved in and rigged up FWS pulling unit. GO Wireline ran gamma ray correlation and collar logs. PBTD 1733'. Swabbed 2-7/8" csg down to 1350'. Perf w/1 2-1/8" glass jets per foot 1618-1628' (10 holes). Made one swab run to bottom. Well kicked off making estimated 150 MCFGPD.

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APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

Case No. 6586
Exhibit No. 36

Form 9-331 (May 1963)	I' TED STATES	SUBMIT IN THE (TE	1300 Feb 1301400 140: 42-121424.
DEP	ARTML.T OF THE INTER	(IOK verse side)	5. LEASE DESIGNATION AND SERIAL NO.  SF 079070
	NOTICES AND REPORTS  Proposals to drill or to deepen or plus Prilication for Permit—" for such		G. H. Janes, Altrophysion on white
1.	I PROVITOR FOR EDITION - 101 BACK	propositi	7. UNIT AGREEMENT NAME
WELL WELL OF	Titis		8. FARM OR LEASE NAME
Dugan Product:	ior Corp.	•	Dinero
3. ADDRESS OF OPERATOR	ington NM 97401		9. WELL NO.
4. LUCATION OF WELL (Report los See also space 17 below.)	ington. NM 87401 atlor clearly and in accordance with an	y State requirements.*	10. FIRLD AND POOL, OR WILDCAT
At surface	FNL - 810' FEL		Wildcat PC 11. BIC., T., R., M., OR BLK. AND RURYNT OR AREA
2.00			AFON BASES
14. PERMIT NO.	18. ELEVATIONS (Show whether	DF, AT, CR, etc.)	12. COUNTY OF PARISH 13. BYAYS
	5890' GR	<del></del>	San Juan NM
	ck Appropriate Box To Indicate	• •	무역생활 이 등 중한국 :
·	P INTENTION TO:	1	DERT REPORT OF:
FRACTURE TREAT	NULTIPLE COMPLETE	WATER SHUT-OFF PRACTURE TREATMENT	ALTERING CABING
SHOOT OR ACIDIES	ABANDON*	BROOTING OR ACIDIZING	tbg - X
(Other)	CHANGE PLANS	(Other)	of multiple completion on Well
proposed work. If well is	TED OPERATIONS (Clearly state all pertine directionally drilled, give subsurface los	ent details, and give pertinent dates,	including estimated date of starting any all depths for all markers and zones perti-
nent to this work.) *			Mounts  The second seco
11-17-78 M	loved in and rigged up F	WS swahhing unit Day	. 51 1+2 3 2 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3
2	2.75# J-55 10R IJ tbg.	TE 1653.07' set @ 165	1' GR. Nippled up 1 8 8 1
W	ell head and landed tbg	. Shut well in and r	igged downswabbing
u	nit.	•	
•			Action of the control
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			- 1 - 전환경조원 상환 경험경 <b>구</b> 
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18. I hereby certify that the fores			
signedInomas_A	Dugan TITLE	Petroleum Engineer	DATE -11-28-78
(This space for Federal or St	ite office (use)		
APPROVED BY	TITLE		DATE
			5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
	*C 1tt_	ns on Reverse Side	
	See Instruction	is on Keveise Side	
	•		
		APPLICATION	FOR DOWNHOLE COMMINGLING
		BY DUGAN PI Big Field a	RODUCTION CORP. #2, Big Field #5, Dinero #1,
		and Molly F	Pitcher #2 Wells.
		Case No.	6586
		Exhibit No.	36

Dugan Prouduction Corp. Dinero #1 1460' FNL - 810' FEL Sec 13 T30N R14W San Juan County, NM Elevation 5890' GR

#### REMEDIAL OPERATIONS

- 6-4-79 Moved in and rigged up FWS swabbing unit. Blew well down. Pulled 1-1/2" tbg. Removed well head and installed master valve for frac. Shut in. Rigged down FWS.
- Foam fraced w/Nowsco and Western Co w/70 quality foam. Used 25 gals adafoam, 103.5 bbls wtr and 128,800 SCF of nitrogen. Started pad pressured up to 4000 psi blew well down and pressured up and broke down w/wtr. Formation broke down and fraced as follows: ITP 1800 psi, Min 1700 psi, Max 1800 psi, Ave 1750 psi. Dropped 15 ball sealers in one stage got 50 psi pressure increase when balls hit. Average IR foam 15 B/M. ISDP 1300 psi. 5 min stdg press 1200 psi. Left well shut in two hours. Opened to atmosphere through 5/8" pos choke.
- 6-7-79 Moved in and rigged up FWS swabbing unit. Well unloading water and gas. Making estimated 500 MCF. Re-ran 50 jts 1-1/2" tbg. TE 1620.59' set @ 1618'. Tagged sand @ 1628' cleaned out to 1653'. Landed tbg and nippled up well head. Put well back on production. Rigged down FWS.

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APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

Case No.	6586	
Exhibit	No. 36	

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Dugan Production Corp.
Molly Pitcher #2
1590' FNL - 790' FEL
Section 14, T30N R14W
San Juan County, NM
Elevation: 5950' GR

#### MORNING REPORT

- 7-26-78 Moved in and rigged up Morrow Drlg. Co. Spudded 8-3/4" hole @ 9:00 a.m. Drlg to 65'. Ran 2 jts 7" GD 26# LT&C csg. TE 64.19' set @ 64' GR. Cemented to surface w/35 sx class "B" neat w/2% CaCl. POB 11:10 a.m. 7-25-78.
- 7-27-78 Depth 1133' on bottom with new bit. Drlg with water.
- 7-28-78 TD 1800'. Logs on bottom.
- 7-29-78 Rigged up csg tools. Ran 61 jts 2-7/8" OD 6.4# CW-55 10R NEUE tbg for csg. TE 1797.97' set @ 1797' GR. Had good mud returns and reciprocated pipe while cementing/ Preflushed hole w/100 gals mud sweep. Cemented w/60 sx 65-35 w/12% gel 1/1/4# cello flake per sx followed by 75 sx class "B" w/1/4# cello flake per sx. Total slury 239 cu ft. Bumped plug w/1500 psi. Released to 750 psi. Shut in. Circulated trace of cement. POB 11:55 a.m. 7-28-78.
- 8-23-79 Moved in FWS swabbing unit. GO Wireline ran Gamma Ray correlation and collar logs. PBTD 1778'. Swabbed 2-7/8" csg down to 1200'. Perf by GO Wireline 1679-1689', 1586-1589' and 1492-1497'. Swabbed well down no indication of water entry w/very slight show gas.
- 8-31-79 Acidized well by Allied Services w/250 gals 15% reg acid w/2 gals
  Tretolite former. Dropped 15 ball sealers in acid some ball
  action. Breakdown pressure 1750 psi back to 750 psi @ 1-1/2 B/M.
  Had 200 psi increase when ball hit. Flushed w/10 bbls water. Swabbed
  down. Slight increase in gas no indicated water entry.
- Foam fraced w/Nowsco and Western Co w/70 quality foam. Used 25 gals. adafoam, 22,000# 10-20 sand, 103.5 bbls wtr and 128,800 SCF of Nitrogen Dropped 15 ball sealers in one stage got 25 psi pressure increase when balls hit perfs. Initial frac 1750 psi Max 1900 psi, Min 1750 psi, Ave 1850 psi. Average IR 15 B/M foam. Left well shut in one hour. Opened well to atmosphere unloading heavy mist of water and estimated 350 MCFGPD after eight hours.

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APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP.
Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

Case No	6586
Exhibit No.	3c

Dugan Production Corp. Molly Pitcher #2 Page 2

6-7-79 Moved in and rigged up FWS swabbing unit. Well unloading wtr and gas. Ran 52 jts 1-1/4" OD 2.4# CW-55 10R EUE tbg. TE 1683.53' set @ 1681'G Had cross pin in bottom for swab stop. Landed tbg and nippled up well head. Well came around thru tbg. Rigged down FWS.

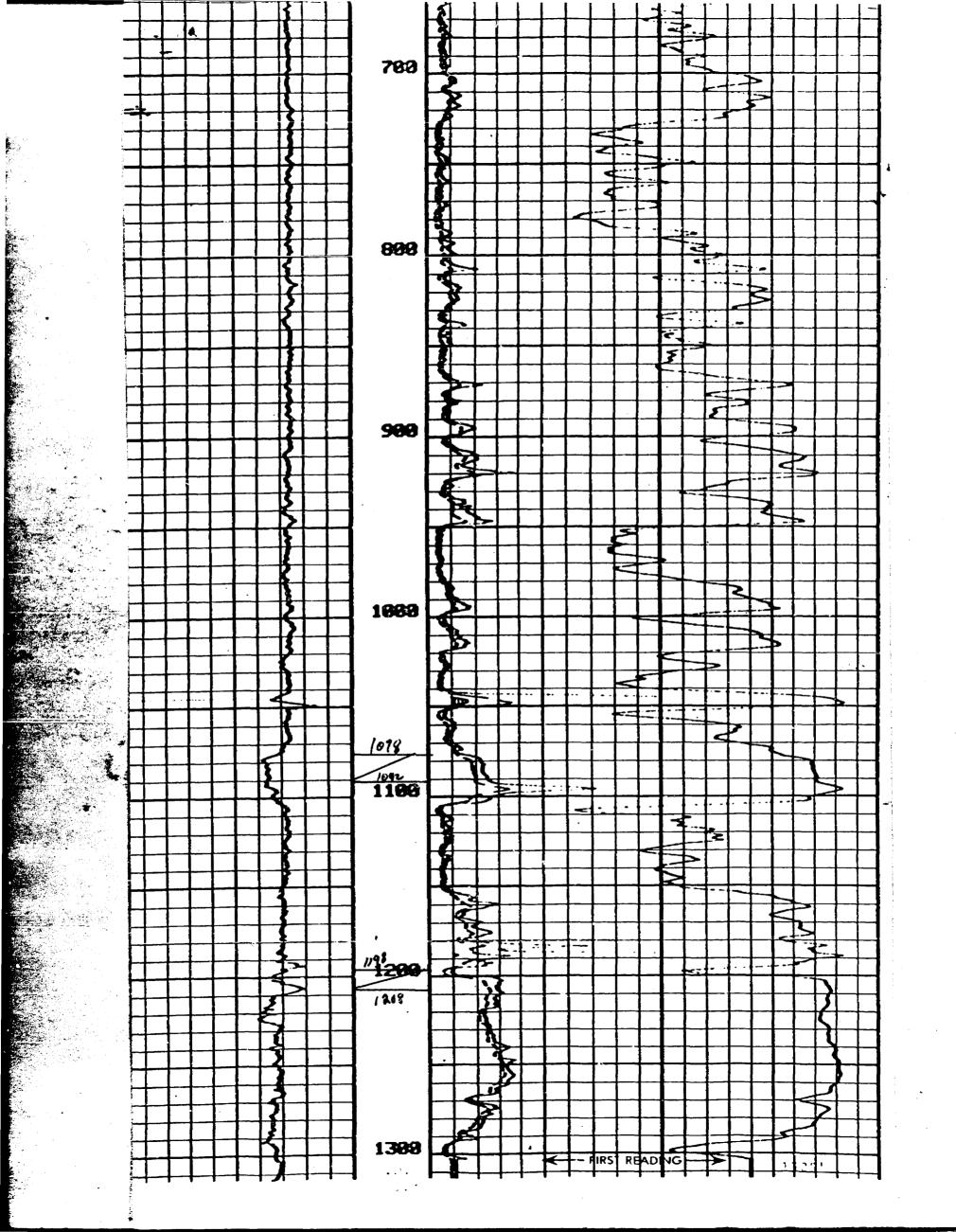
APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

Case No	6586
Exhibit N	o. 3c

	[=]	月旦	\\\\   =	احادا
E D Y		The Date of Street, Street,		
=3C		Indi	uction	
leote ous"		Electi	ric Log	
rest ons				
	COMPANY	DUGAN PR	ODUCTION CO	ORPORATION
	-			
, <b>o</b> ,	WELL	BIG FIEL	.D #2	
$\sim$	WEEK			
1/6	FIELD	WILDCAT		
. ' /	COUNTY	SAN JUAN	AT2	TE NEW MEXICO
<b>\</b> .	LOCATION:			OTHER SERVICES:
V	tocallon:	790 FML 18	50'FWL	NONE
3		N N	-30	
,	SEC. 3	TWP, 30N R	cs 14W	
PERMANENT DATU	GROUND LE	VEL .E		ELEV. K.S. N.A.
ING MEASURED ED	G.L.	U . FT ABOVE	PERM. DATUM	D.F. N.A.
DRILLING MEASURE	D FROM GROU	ND LEVEL		G.L. 5662 t
DATE	10/16/78	1	1	<del></del>
RUN NO.	ONE			
DEPTH-DRILLER	1310'			
DEPTH-LOGGER	1310'			
BTM. LOG INTER.	1305'			
TOP LOG INTER.	0'			
CASING - DRILLER	5 1/2@ 401	6	@	6
CASING-LOGGER	NOT REACHED			· .
BIT SIZE	4 3/4"			·
TYPE FLUID IN	MUD			
HOLE	FULL	<del></del>	<u> </u>	
DENS. VISC.	N.A. 2.8 N.A. 50 ml		<del> </del>	
SOURCE OF SAMPLE	N.A.  50 ml	ml ml		nl ml
Rm @ MEAS. TEMP.	1.0 @ 78 °F	6 ° ₽	6 (	F @ 0F
Rm1@MEAS.TEMP.	1.0 @ 76 °F			F @ °F
Rmc@MEAS.TEMP.	.85 @ 76 °F		<del></del>	F @ °F
SOURCE Rmf Rmc	PRESS PRESS	7	i	1
Rm @ B.H.T.	@ 8.0°F	6 °F	e °	) F @ 0 F
TIME SINCE CIRC.	2 HOURS			
MAX. REC. TEMP.	820 °F	°F		°F °F
	34 2959			
RECORDED BY	MARTINEZ			
WITNESSED BY	FAGZELIUS			

APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1 and Molly Pitcher #2 Wells.

Case No	6586	
Exhibit No.	4 a	



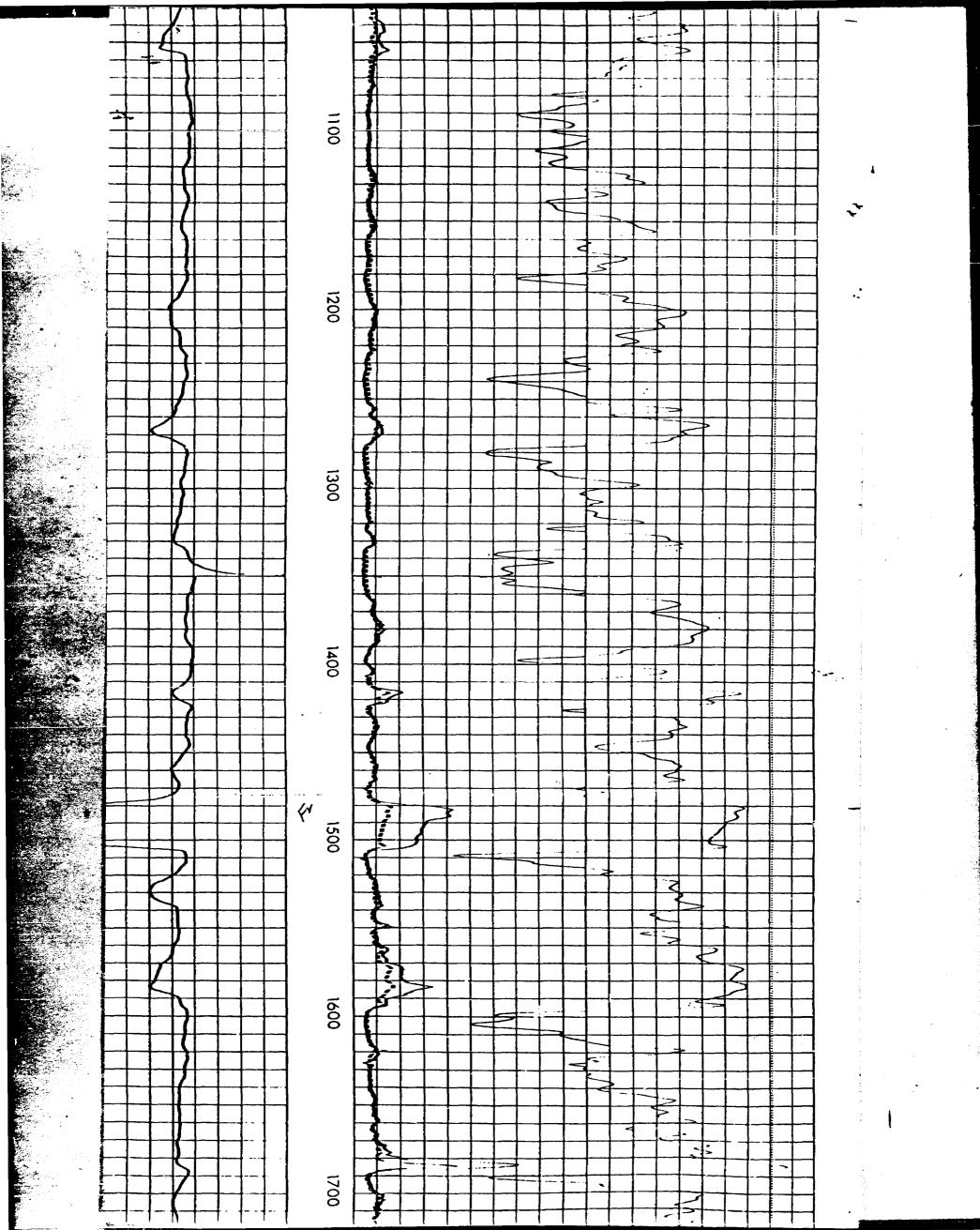
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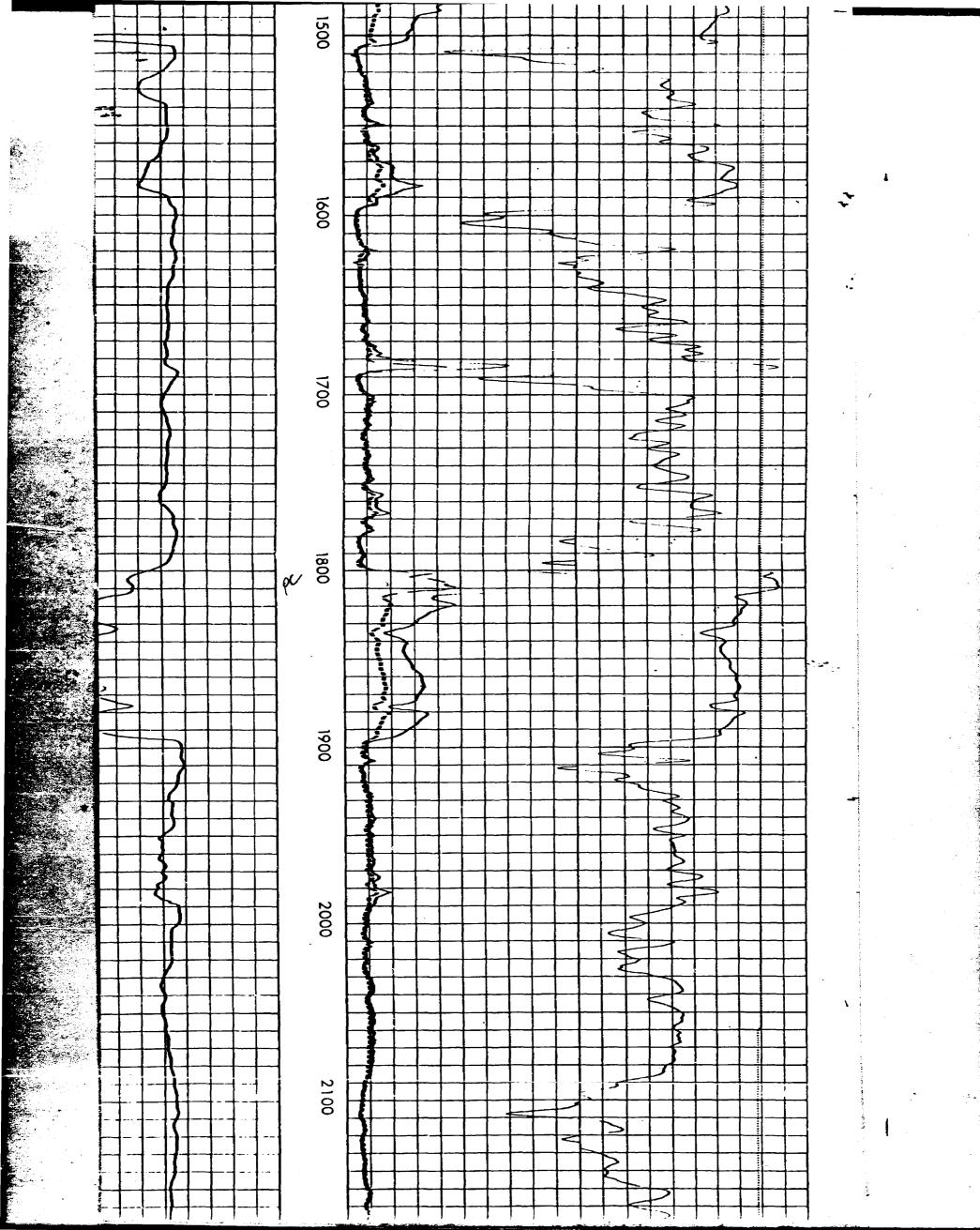
# EINDUCTION DELECTRIC

				2		- 4c . C			
		COMPANY_DUG	AN _PRO	DUCTIO	N_CORPORA	ITJQN			
	State	WELLBJG_			<del></del>				
	ĬŠ	FIELD_BASIN	DAKOTA	<u> </u>					
		COUNTY SAN	JUAN		STATE NE	W ME	EXICO		
1		Location					Services:		
COMPANY	)ruty-	_	790'F5L\$ 790'FEL COL						
		Sec_IQTw							
		EROUND LEVE		Elev 61		Elev.:	K.B. 6153		
		KELLY BUSHING		Ft. Above	Perm. Datum		D.F. 6152		
<del></del>	iOu	KELLY BUSHI	NG		·	<u></u>	G.L. 6143		
Date		3-25-79	<b> </b>	<u></u>	ļ -:			<u> </u>	
Run No.		ONE, _	ļ ·-		<del> </del>				
Depth—Driller		6680	<del> </del>		<del> </del>		<del></del>		
Depth—Welex		6677	· · · ·		ļ <del></del> -				
Btm. Log Inter.		_6678	<del> </del>		ł ·	·			
Top Log Inter. Casing—Driller		20'	(0)		<del> </del>				
Casing—Driller Casing—Welex	-	85/2 @ 210' 210'	۳ ۳		@		@		
Bit Size		7%"			·	<del> </del>	· · · <del>- · · · · · · · · · · · · · · · ·</del>		
Type Fluid in Hole		DRILLING MUD							
Dons. I Visc.	-	9.2 150					<u></u>		
pH   Fluid Loss		8.0 1 17 ml	!	ml		_ml		ml	
Source of Sample		FLOW LINE	. <u></u>	·					
R @ Meas. Temp		3.0 @ 80 F	(a)		@	£. .		<u>•</u> F	
R <sub>m</sub> @ Meas. Temp		1.8@ U5 F	@		<u> </u>	"F	@	• <u>F</u>	
R <sub>m</sub> @ Meas Temp. 3.3@		3.3@ 45 F	(é)	<u>"</u> F	<u>(w</u>	"F		<u>•F</u>	
Source R R R R R R R R R R R R R R R R R R R		MEASURED					·		
Time Since Circ.		1.15@200"F	@	<u>°F</u>	<u>@</u>			<b>:</b> E.	
•	1	3 HOURS	— <u>-</u> - €@		- ·			<u> </u>	
		200 F @ TD   1893   IFARHINGT			"F@		<u>•F@</u>		
Recorded By		E.C. Collins			<del></del>		<del></del>		
Witnessed By	-	Mr. Fagrelius	·						
AHOH—AA .05845					L				
.AUC! WA .02042	,							i i	

APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

Case No	6586	<u> </u>
Exhibit No	. 45	





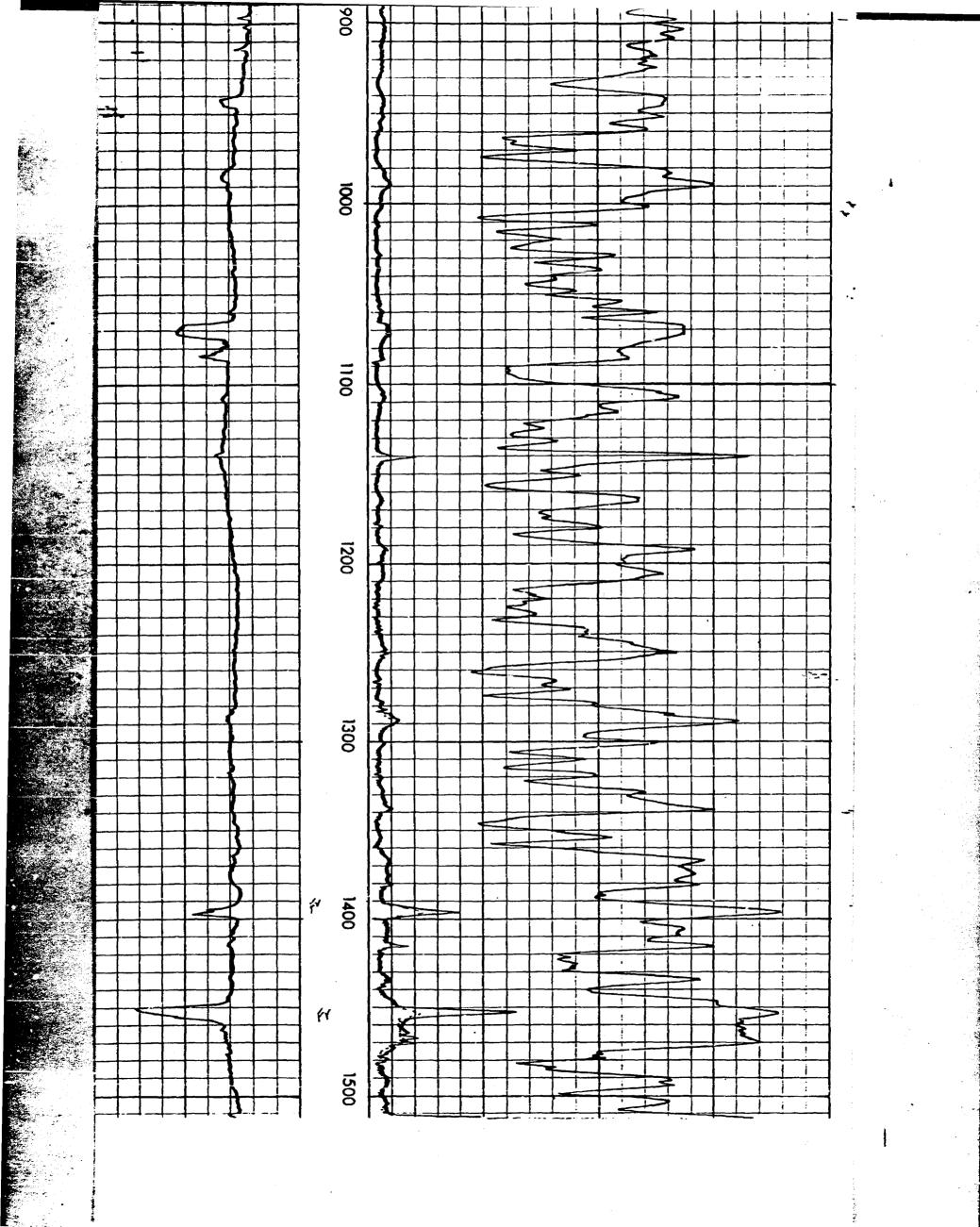
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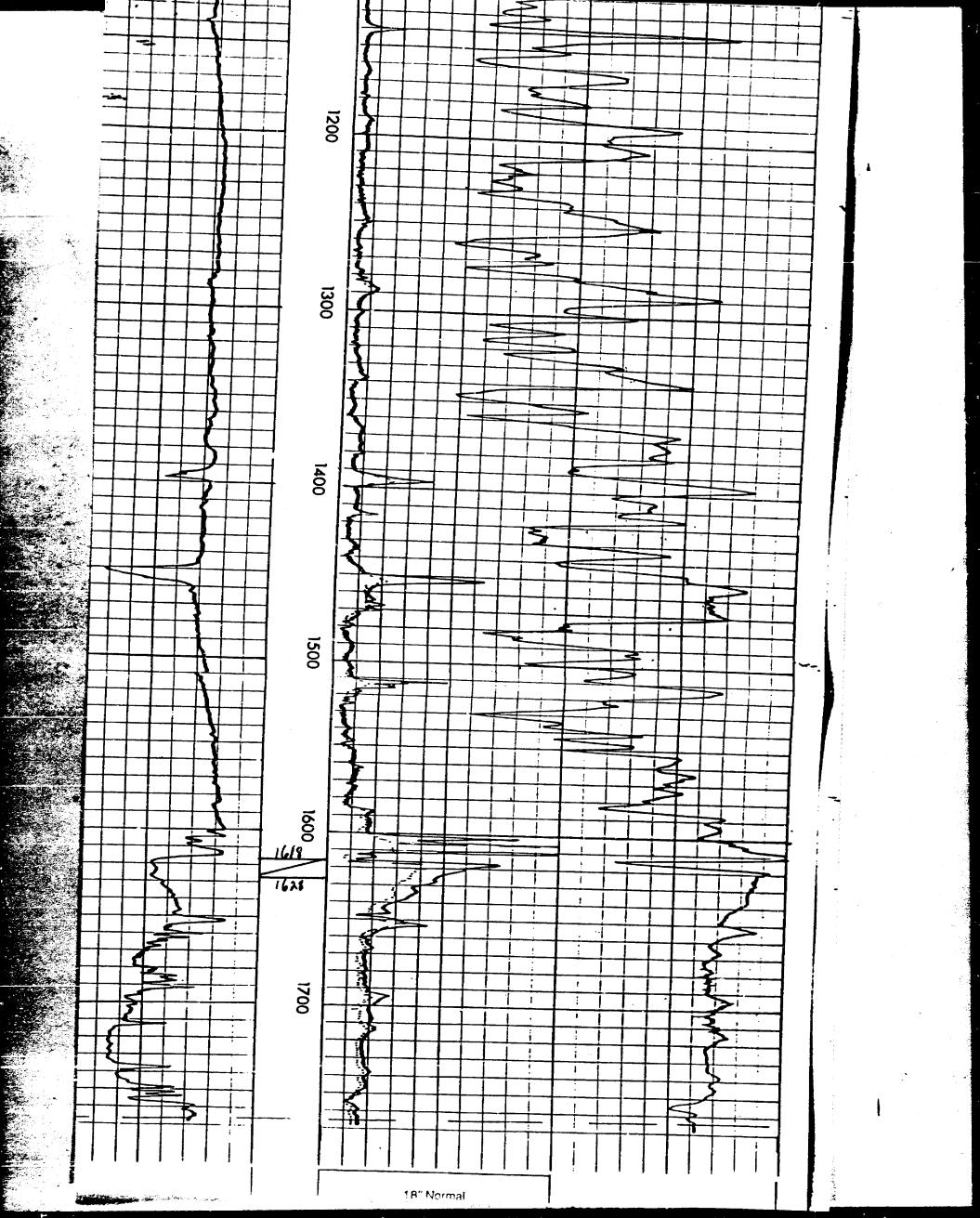
# #INDUCTION TELECTRIC

CTION	N. IX					ION CORPO	ORAT	10N	
	ate.	WELL.	וט	NERO #1					
PROL	St	FIELD.	WI	LDCAT		•			
7 I I I	AT JUAN	COUNT	COUNTY SAN JUAN STATE NEW MEXICO						
	1 2 1	Location	1				Other	r Services:	,
COMPANY DUGAN PRODUCTION CORPORATION WELL DINERO #1	FIELD WILD(	Sec		NL - 81				NONE	
			LEVEL			890'	<del> </del>		
Permanent Da Log Measured	atum	GROUN	ID LEVEL	E	EV		•	: K.B	
Drilling Measured	3 From .	- GROI	IND LEVE	<u>′</u> J~1 'T.	. Above	Perm. Datum		D.F G.L. 5890	· -
	ned Fro	8-14		1			1	G.L. <u>3030</u>	
Date		ONE	7.0	<del></del>					
Run No. Depth—Drille		1770	\ •		<u> </u>		•		
Depth—Wele		1771		ļ					
Btm Log Inte		1765							
Top Log Inter		48							
Casing—Drill		╅╗╗	<u>@</u> 60'	(a)		@		@	
Casing —Wel			@ 48'					- <del></del>	
Bit Size		4-3/							
Type Fluid in	Hole		R BASE						
1 "		MUD							
Dens. I Visc.				1		1		1	
pH   Fluid Lo	055		l ml	ı	ml	1	_ml´	1	ml
Source of Sar		MUD							
R <sub>m</sub> @ Meas.			@ 70 °F	@	۰F	@	٩F	@	°F
R <sub>m</sub> @ Meas.		4.2		@	۰F	@	°F	<u>@</u>	°F
			@62 °F	@	°F		°F	@	°F.
Source R <sub>m</sub> R <sub>m</sub> MEASURED			<u> </u>		1		1		
R <sub>m</sub> @BHT		<del> </del>	<u>@</u> °F	@	•F	@	°F_		_•E
Time Since C	·		IOURS						
Max. Rec. Tel			F@	°F@		°F@		*F@	
Equip. I Loc		19695	IFARMI	NGTONI	121)	l l		<u> </u>	
Recorded By				J. LEEP	EK				
Witnessed By		14. 1.	MGRELIU	٥		L			

APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

Case	No	6586	
Exhil	oit N	o. 4c	





Weil File SINDUCTION PELECT LOG WELL MOSTY PITCHEN # 2 Wilded STATE / COUNTY Say June Other Services: 1500' FAL 790' FLA NONE 14 TWP 30 N Age 14 W Ekiv : K.B. Grand Ft. Above Perm. Dalum GL 5/50 Log Measured From.\_ Drilling Measured From Grown 7-28-13 Date 150D Run No. Depth - Driller 1800 Depth-Welex 1794 Btm. Log inter. 20 63 Sunt Top Log Inter. @ Casing - Driller 18 0 360 Casing—Welex 43/4 70 Bit Size Fresh Wato Type Fluid in Hole ml ml Dens. I Visc. pH | Fluid Loss ۰F (6) Source of Sample ۰F 6.0 @66°F (a) R @ Meas. Temp. R @ Meas. Tomp. "F @ °F 60@74F @ ۰F (d: (ci, ۰F @ R (a) Meas. Temp. CO @70F

Witnessed By LAHOH-AA .05845

Source R R R\_@BHT

Time Since Circ

Max. Rec. Temp Equip I Location

Recorded By

Mrasin. J

·F@TITM

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APPLICATION FOR DOWNHOLE COMMINGLING BY DUGAN PRODUCTION CORP. Big Field #2, Big Field #5, Dinero #1, and Molly Pitcher #2 Wells.

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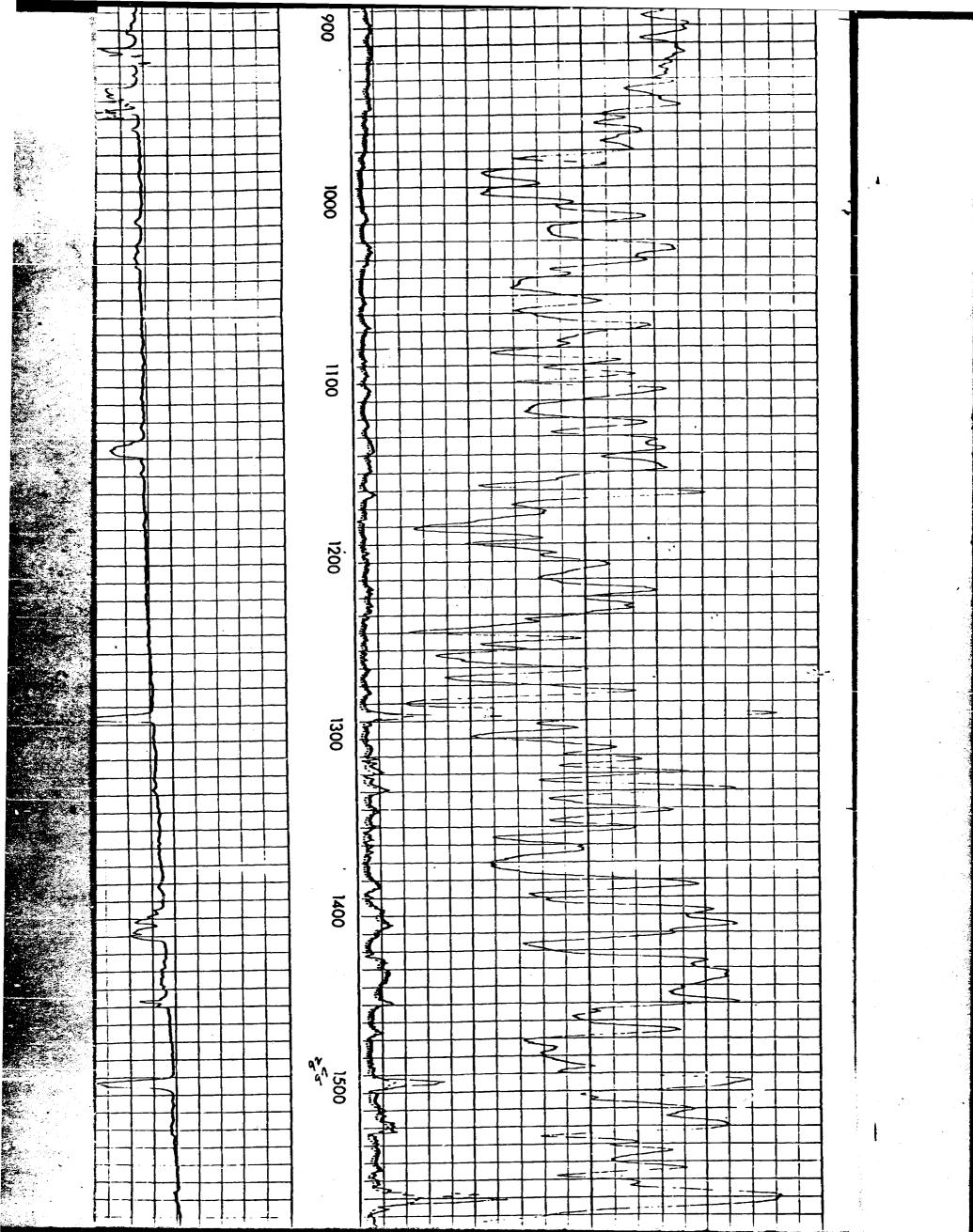
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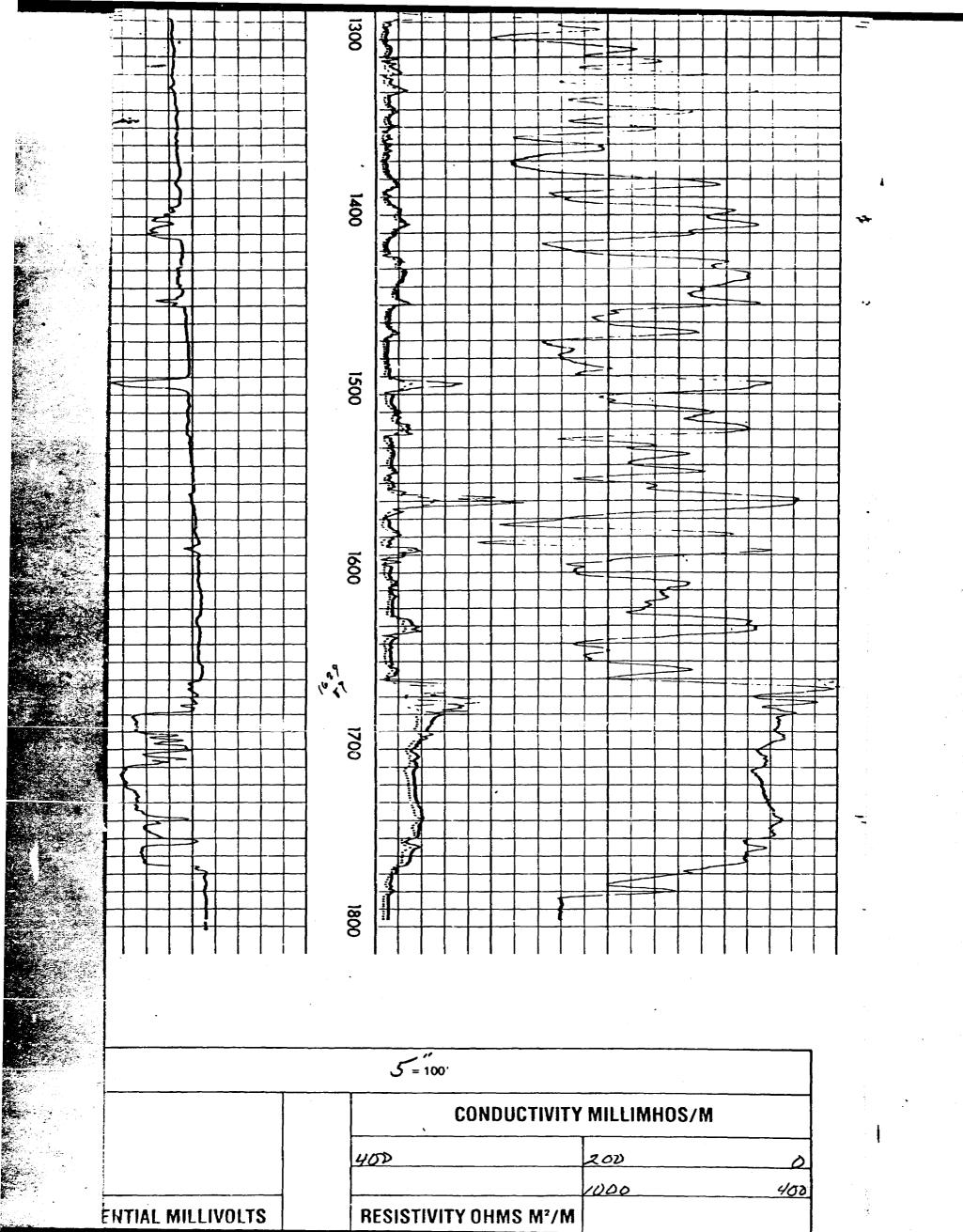
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Case No	6586
Exhibit No	. 41





Dockets Nos. 27-79 and 28-79 are tentatively set for hearing on July 25 and August 8, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

#### DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 11, 1979

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamcts, Examiner, or Daniel S. Nutter, Alternate Examiner:

- CASE 6583: Application of Amoco Production Company for downhole commingling, Rio Arriba County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the downhole commingling of B.S. Mesa-Gallup and Basin-Dakota production in the wellbere of its Jicarilla Apache 102 Well No. 13 located in Unit B of Section 10, Township 26 North, Range 4 West.
- CASE 6584: Application of Texas Oil & Gas Corp. for an unorthodox gas well location, Eddy County, New Mexico.
  Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Shugart State
  Cou. Well No. 2 660 feet from the South line and 1930 feet from the East line of Section 16, Township
  18 South, Range 31 East, to test the Wolfcamp through Mississippian formations, the E/2 of said
  Section 16 to be dedicated to the well.
- CASE 6574: (Continued from June 13, 1979, Examiner Hearing)

Application of Texas Oil & Gas Corp. for an unorthodox gas well location and compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp through Morrow formations underlying the E/2 of Section 6, Township 17 South, Range 35 East, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the South and East lines of said Section 6. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6563: (Continued from June 27, 1979, Examiner Hearing)

Application of Roy L. McKay for a unit agreement, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks approval for his North Woolworth Ranch Unit Area, comprising 1,280 acres, more or less, of State lands in Township 23 South, Range 35 East.

- CASE 6585: Application of Dugan Production Corporation for downhole commingling, San Juan County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the downhole commingling of undesignated Fruitland and West Kutz-Pictured Cliffs production in the wellbores of its Paul Wells Nos. 1 and 2 located in Units G and C of Section 19, Township 27 North, Range 11 West.
- CASE 6586: Application of Dugan Production Corporation for downhole commingling, San Juan County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the downhole commingling of Conner-Fruitland and undesignated Pictured Cliffs production in the wellbores of the following wells: Big Field Well No. 2 in Unit C of Section 3; Big Field Well No. 5 in Unit P of Section 10; Dinero Well No. 1 in Unit H of Section 13; and Molly Pitcher Well No. 2 in Unit H of Section 14, all in Township 30 North, Range 14 West.
- CASE 6587: Application of Caribou Four Corners, Inc., for three unorthodox well locations, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox locations of the following wells in the Cha Cha-Gallup Pool: Kirtland Wells Nos. 3 and 4 located 730 feet from the North line and 2250 feet from the East line and 1450 feet from the North line and 595 feet from the East line, respectively, of Section 18, Township 29 North, Range 14 West; and Kirtland Well No. 2 260 feet from the North line and 2100 feet from the East line of Section 13, Township 29 North, Range 15 West.
- Application of Caribou Four Corners, Inc., for a non-standard proration unit, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 64.32-acre non-standard oil proration unit comprising the NW/4 NW/4 and that part of Lot 5 lying north of the San Juan River, all in Section 18, Township 29 North, Range 14 West, Cha Cha-Gallup Oil Pool.
- Application of Atlantic Richfield Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its State "BV" No. 2 Well 2109 feet from the North line and 1778 feet from the West line of Section 25, Township 17 South, Range 28 East, to test the Morrow formation, the N/2 of said Section 25 to be dedicated to the well.

- Application of Crose Petroleum Corporation for compulsory pooling and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Lots 9, 10, 15, and 16 and the SE/4 of Section 6, Township 21 South, Range 32 East, to be dedicated to a well to be drilled at an unorthodox location 4650 feet from the South line and 660 feet from the East line of said Section 6. Also to be considered will be the cost of drilling and completing said well and the allocation of the costs thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- Application of Exxon Corporation for vertical pool limit redefinition, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks an order extending the vertical limits of the Langlie

  Mattix Pool to include the lowermost 165 feet of the Seven Rivers formation and the concomitant

  contraction of the vertical limits of the Jalmat Cas Pool underlying the NE/4 of Section 2, Township
  24 South, Range 36 East.
- CASE 6592: Application of Maddox Energy Corporation for a dual completion, Eddy County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the dual completion of its Malaga Well No.

  1 located in Unit G of Section 3, Township 24 South, Range 28 East, to produce gas from the Atoka and Morrow formations through parallel strings of tubing.
- CASE 6593: Application of Dyco Petroleum Corporation for salt water disposal, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the San Andres, Glorieta and Tubb formations in the open-hole interval from 4894 feet to 8725 feet in its

  C. S. Stone Well No. 3 located in Unit F of Section 22, Township 15 South, Range 38 East, Medicine Rock-Devonian Pool.
- CASE 6594: Application of Flag-Redfern 0il Co. for an exception to Order No. R-3221, Eddy County, New Mexico.

  Applicant, in the above-styled cause, seeks an exception to Order No. R-3221 to permit disposal of produced brine in an unlined surface pit located in Unit K, Section 2, Township 19 South, Range 31 East, Shugart Field.
- Application of Stevens Oil Company for compulsory pooling, Chaves County, New Mexico.

  Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying the NW/4 SW/4 of Section 30, Township 8 South, Range 29 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 6270: (Reopened and Readvertised)

In the matter of Case 6270 being reopened pursuant to the provisions of Order No. R-5771 which order created the South Peterson-Fusselman Pool, Roosevelt County, New Mexico, and provided for 80-acre spacing. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units.

\*

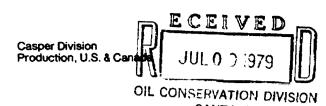
Docket No. 26-79

#### DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 18, 1979

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets. Examiner. or Daniel S. Nutte: Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for August, 1979, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.
  - (2) Consideration of the allowable production of gas for August, 1979, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.





P.O. Box 2659 Casper, Wyoming 82602 Telephone 307/265-7693

Case (0586)

SANTA FE

July 6, 1979

New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey, Division Director

Dear Sir:

Enclosed herewith please find a Waiver of Objection and Consent executed by Marathon Oil Company for the down hole commingling of production from the Dinero #1 Well, San Juan County, New Mexico.

Marathon waivers any objection to the subject Application.

Sincerely,

Jesse E. O'Neal

JEO:ss Encl.

cc: Dugan Prod. Corp.



### WAIVER OF OBJECTION AND CONSENT TO THE DOWNHOLE COMMINGLING OF THE DINERO #1 WELL

The undersigned, as an operator of a lease offsetting the NE/4 of Section 13, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Dinero #1 Well.

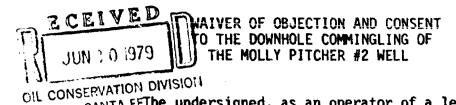
The undersigned states that it waives any objection to this Application, and voluntarily consents to the commingling of the Dinero #1 Well as stated in the above mentioned Application.

Dated this \_\_\_\_\_ day of June, 1979.

Marathon Oil Company
Company Name
By: Gerse & O'Neal
Title: Acting District Manager
Address: P.O. Box 2659
Casper, Wyoming 82602



Please send one executed copy to Joe D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501, and return one executed copy to the Applicant. The remaining copy is for your files.



SANTA FEThe undersigned, as an operator of a lease offsetting the NE/4 of Section 14, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Molly Pitcher #2 Well.

The undersigned states that it waives any objection to this Application, and voluntarily consents to the commingling of the Molly Pitcher #2 Well as stated in the above mentioned Application.

Dated this 199 day of June, 1979.

South and Koyalty Co.
Company Name

By: Claron

Title: District Engineer

Address: P.O. drawer 5.70

Farmington, N.M.

Please send one executed copy to Joe D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, N.M. 87501, and return one executed copy to the Applicant. The remaining copy is for your files.

#### WAIVER OF OBJECTION AND CONSENT TO THE DOWNHOLE COMMINGLING OF THE MOLLY PITCHER #2 WELL

The undersigned, as an operator of a lease offsetting the NE/4 of Section 14, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Molly Pitcher #2 Well.

The undersigned states that it waives any objection to this Application, and voluntarily consents to the commingling of the Molly Pitcher #2 Well as stated in the above mentioned Application.

Dated this 19th day of June, 1979.

ODESSA NATURAL CORPORATION

Company Name

Address: P. O. Box 3908, Odessa, Texas 79760

Please Send-one executed copy to Joe D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, N.M. 87501, and return one executed copy to the Applicant. The remaining copy is for your files.

#### WAIVER OF OBJECTION AND CONSENT TO THE DOWNHOLE COMMINGLING OF THE MOLLY PITCHER #2 WELL

The undersigned, as an operator of a lease offsetting the NE/4 of Section 14. Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Molly Pitcher #2 Well.

The undersigned states that it waives any objection to this

Application, and voluntarily consents to the commingling of the Molly Pitcher #2

Well as stated in the above mentioned Application.

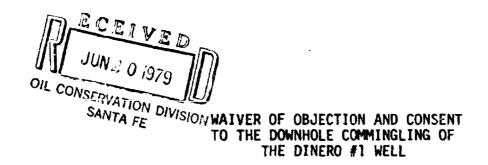
Dated this 21st. day of June, 1979.

	CEIVED	$\mathbf{m}_{\mathbf{r}}$
K	JUN 2 2 1979	
OIL C	ONSERVATION DIV	VISION

Company Name							
By:	John A	. Ahlm	9	ohn a	r. A	Llon	
Title:	Region	al Land	Mana	iger .			
Address	Post	Office	Box	990	- <b>V</b>		
	Farm	inatan	More	Maurian	0.7401		

El Paso Natural Gas Company

Please send one executed copy to Joe D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, N.M. 87501, and return one executed copy to the Applicant. The remaining copy is for your files.



The undersigned, as an operator of a lease offsetting the NE/4 of Section 13, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Dinero #1 Well.

The undersigned states that it waives any objection to this Application, and voluntarily consents to the commingling of the Dinero #1 Well as stated in the above mentioned Application.

Dated this \_\_\_\_\_\_\_ day of June, 1979.

South land Koyalty
Company Name

Title: Distairt Francis

Address: P. D. Drawer 570

Farmington, N. M.

Please send one executed copy to Joe D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501, and return one executed copy to the Applicant. The remaining copy is for your files.

## WAIVER OF OBJECTION AND CONSENT TO THE DOWNHOLE COMMINGLING OF THE DINERO #1 WELL

The undersigned, as an operator of a lease offsetting the NE/4 of Section 13, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Dinero #1 Well.

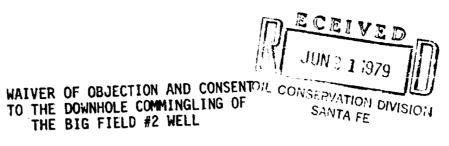
The undersigned states that it waives any objection to this Application, and voluntarily consents to the commingling of the Dinero #1 Well as stated in the above mentioned Application.

Dated this \_\_\_\_\_ day of June, 1979.

ODESSA NATURAL CORPORATION	
Company Name	
By: DIRECTOR - PRODUCTION DEPARTMENT Title: P. O. Box 3908, Odesse, Texas 7 Address:	



Please send one executed copy to Joe D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501, and return one executed copy to the Applicant. The remaining copy is for your files.



The undersigned, as an operator of a lease offsetting the NW/4 of Section 3. Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Big Field #2 Well.

The undersigned states that it waives any objection to this Application, and voluntarily consents to the Commingling of the Big Field #2 Well as stated in the above mentioned Application.

Dated this \_\_\_\_\_\_ day of June, 1979.

Please send one executed copy to Joe D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, N.M. 87501 and return one executed copy to the Applicant. The remaining copy is for your files.

#### WAIVER OF OBJECTION AND CONSENT TO THE DOWNHOLE COMMINGLING OF THE BIG FIELD #2 WELL

The undersigned, as an operator of a lease offsetting the NW/4 of Section 3. Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Big Field #2 Well.

The undersigned states that it waives any objection to this Application, and voluntarily consents to the Commingling of the Big Field #2 Well as stated in the above mentioned Application.

Dated this 21st. day of June, 1979.

El Paso Natural Gas Company

Company Name

By. John A. Ahlm

Title: Regional Land Manager

Address: Post Office Box 990

Farmington, New Mexico 87401

JUN 2 2 1979

OIL CONSERVATION DIVISION SANTA FE

Please send one executed copy to Joe D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, N.M. 87501 and return one executed copy to the Applicant. The remaining copy is for your files.

#### WAIVER OF OBJECTION AND CONSENT TO THE DOWNHOLE COMMINGLING OF THE BIG FIELD #5 WELL

The undersigned, as an operator of a lease offsetting the SE/4 of Section 10, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Big Field #5 Well.

The undersigned states that it waives any objection to this Application, and voluntarily consents to the commingling of the Big Field #5 Well as stated in the above mentioned Application.

Dated this 21st day of June, 1979.

El Paso Natural Gas Company

Company Name

By: John A. Ahlm

Title: Regional Land Manager

Address: Post Office Box 990

Farmington, New Mexico 87401

JUNE 2 1979

OIL CONSERVATION DIVISION SANTA FE

Please send one executed copy to Joe D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, N.M. 87501, and return one executed copy to the Applicant. The remaining copy is for your files.



Case 6586

June 21, 1979

New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey Division Director

> Re: Approval of Downhole Commingling Molly Pitcher #2 Big Field #5

Gentlemen:

Please find attached waivers executed by Tenneco Oil Company indicating we have no objection to the granting of permission to commingle the stated producing zones in the captioned wells.

Very truly yours,

TENNECO OIL COMPANY

J. M. Lacey

Division Production Manager

JML:RJG:sh

Attachment

JUN 3 3 1979

OIL CONSERVATION DIVISION
SANTA FE

#### WAIVER OF OBJECTION AND CONSENT TO THE DOWNHOLE COMMINGLING OF THE MOLLY PITCHER #2 WELL

The undersigned, as an operator of a lease offsetting the NE/4 of Section 14, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Molly Pitcher #2 Well.

The undersigned states that it waives any objection to this

Application, and voluntarily consents to the commingling of the Molly Pitcher #2

Well as stated in the above mentioned Application.

Dated this \_\_\_\_\_ day of June, 1979.

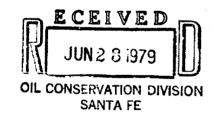
 renneco (	ULL GO	ompany	E &	<u> </u>	
 Company	Name				• •

By: 1 - Juny

Title: Division Production Manager

Address: Penthouse, 720 S. Colorado Blvd.

Denver, Colorado 80222



Please send one executed copy to Jee D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, N.M. 87501, and return one executed copy to the Applicant. The remaining copy is for your files.

### WAIVER OF OBJECTION AND CONSENT TO THE DOWNHOLE COMMINGLING OF THE BIG FIELD #5 WELL

The undersigned, as an operator of a lease offsetting the SE/4 of Section 10, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico, does hereby acknowledge receipt of the Application for Downhole Commingling of the Big Field #5 Well.

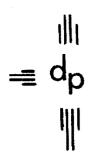
The undersigned states that it waives any objection to this Application, and voluntarily consents to the commingling of the Big Field #5 Well as stated in the above mentioned Application.

Dated this \_\_\_\_\_ day of June, 1979.

Te	nneco Oil Company E & P Company Name
	1 /
By:	An from
Title:	Division Production Manager
Address:	Penthouse, 720 South Colorado Blv
	Denver, Colorado 80222

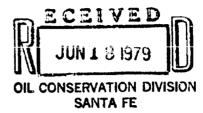


Please send one executed copy to Joe D. Ramey, Division Director, New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, N.M. 87501, and return one executed copy to the Applicant. The remaining copy is for your files.



# dugan production corp.

June 14, 1979



Joe D. Ramey Division Director New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, N.M. 87501

RE: Application for Downhole Commingling of the Molly Pitcher #2 Well (Fruitland and Pictured Cliffs) in San Juan County, New Mexico

Dear Mr. Ramey:

Enclosed are the following instruments concerning the Application for Approval of Downhole Commingling by Dugan Production Corp. for the Molly Pitcher #2 Well located in the NE/4 of Section 14, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico.

- 1. Three copies of the Application.
- 2. Three copies of a Certificate of Mailing stating that all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division have been notified of this Application.

We would appreciate it if you will place this Application for hearing on July 11, 1979.

Thank you for your assistance and cooperation in this matter. Please advise if you need further information.

Sincerely,

Richard T. C. Tully

General Counsel

RTCT/sak

Enclosures

709 BLOOMFIELD RD. . P. O. BOX 234 . FARMINGTON, NEW MEXICO 87401 . PHONE 505-325-0238

#### Distribution

- A1 R. Kendrick Supervisor, District III Office Energy and Minerals Dept. New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, N.M. 87410
- Phil T. McGrath
  District Engineer
  U. S. Geological Survey
  Box 959
  Farmington, N.M. 87401
- Tenneco Oil Company
   720 South Colorado Blvd.
   Penthouse
   Denver, CO 80222
   Attn: J. F. Gavlick
   Division Landman
- 4. Mountain Fuel Supply Company Box 11368 Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman
- 5. El Paso Natural Gas Company Box 1492 El Paso, TX 79978 Attn: D. N. Canfield Director of Land
- 6. Southland Royalty Company
  Drawer 570
  Farmington, N.M. 87401
  Attn: Larry Van Ryan
  District Superintendent
- 7. Odessa Natural Corporation
  Box 3908
  Odessa, TX 79760
  Attn: Jack R. Mundell
  Director-Land Department

# OIL CONSERVATION DIVISION STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Molly Pitcher #2 Well in San Juan County, New Mexico



#### APPLICATION

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Molly Pitcher #2 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Molly Pitcher #2 Well is the Applicant Dugan Production Corp.
- 2. The Molly Pitcher #2 Well is located on federal oil and gas lease NM 628 insofar as it covers the following described lands:

Township 30 North, Range 14 West, N.M.P.M.

Section 14: NE/4 (Conner Fruitland Pool Extension)
Section 14: NE/4 (Wildcat Pictured Cliffs Pool)
San Juan County, New Mexico

3. The legal location of the well is as follows:

Township 30 North, Range 14 West, N.M.P.M.

Section 14: 1590' FNL - 790' FEL (Unit Letter H)
San Juan County, New Mexico

- 4. The Molly Pitcher #2 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Molly Pitcher #2 Well is capable of only low marginal production from the Conner Fruitland Pool Extension, and the well is also only capable of low marginal production from the Wildcat Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common.
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these Pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by giving approval to the downhole commingling of the Molly Pitcher #2 Well in San Juan County, New Mexico.

Respectfully Submitted,

Richard T. C. Tully
Attorney for Applicant
P. O. Box 234
Farmington, N.M. 87401

#### CERTIFICATE OF MAILING

I certify that I mailed a copy of the Application for Downhole Commingling of the Molly Pitcher #2 Well in San Juan County, New Mexico to all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division on the

### OFFSETTING LEASES AND OPERATORS

### SAN JUAN COUNTY, NEW MEXICO

A. USA NM 628 (Same Lease) Township 30 North, Range 14 West, N.M.P.M. Section 14: SE/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

USA NM 26052

Township 30 North, Range 14 West, N.M.P.M. Section 14: NW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

C. USA NM 2555

Township 30 North, Range 14 West, N.M.P.M. Section 14: W/2 SW/4

Operator:

Operator;

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

D. USA NM 15272

Township 30 North, Range 14 West, N.M.P.M. Section 14: SW/4 SW/4

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman

Tenneco Oil Company 720 South Colorado Blvd.

Penthouse

Denver, CO 80222 Attn: J. F. Gavlick

Division Landman

E. USA NM 13213

Township 30 North, Range 14 West, N.M.P.M. Section 14: NW/4 SW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139

Attn: R. E. Pittam

Staff Landman

F. USA NM 24467

Township 30 North, Range 14 West, N.M.P.M. Section 11: SW/4

Operator:

El Paso Natural Gas Company

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield

Director of Land

G. Unleased Federal Acreage

Township 30 North, Range 14 West, N.M.P.M.

Section 11: SE/4

H. USA NM 28760 Township 30 North, Range 14 West, N.M.P.M. Section 12: SW/4

Operator: Odessa Natural Corporation

Box 3908

Odessa, TX 79760 Attn: Jack R. Mundell

Director-Land Department

I. USA NM 6899

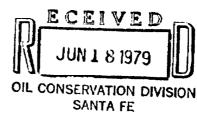
Township 30 North, Range 14 West, N.M.P.M. Section 13: W/2

Southland Royalty Company Drawer 870 Operator:

Farmington, N.M. 87401 Attn: Larry Van Ryan District Superintendent

# OIL CONSERVATION DIVISION STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Molly Pitcher #2 Well in San Juan County, New Mexico



#### APPLICATION

Case 6586

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Molly Pitcher #2 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Molly Pitcher #2 Well is the Applicant Dugan Production Corp.
- 2. The Molly Pitcher #2 Well is located on federal oil and gas lease NM 628 insofar as it covers the following described lands:

Township 30 North, Range 14 West, N.M.P.M.
Section 14: NE/4 (Conner Fruitland Pool Extension)
Section 14: NE/4 (Wildcat Pictured Cliffs Pool)
San Juan County, New Mexico

3. The legal location of the well is as follows:

Township 30 North, Range 14 West, N.M.P.M.

Section 14: 1590' FNL - 790' FEL (Unit Letter H)

San Juan County, New Mexico

- 4. The Molly Pitcher #2 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Molly Pitcher #2 Well is capable of only low marginal production from the Conner Fruitland Pool Extension, and the well is also only capable of low marginal production from the Wildcat Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common.
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these Pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by giving approval to the downhole commingling of the Molly Pitcher #2 Well in San Juan County, New Mexico.

Respectfully Submitted,

Richard T. C. Tully Attorney for Applicant

P. O. Box 234
Farmington, N.M. 87401

#### CERTIFICATE OF MAILING

I certify that I mailed a copy of the Application for Downhole Commingling of the Molly Pitcher #2 Well in San Juan County, New Mexico to all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division on the

#### OFFSETTING LEASES AND OPERATORS

#### SAN JUAN COUNTY, NEW MEXICO

USA NM 628 (Same Lease)

Township 30 North, Range 14 West, N.M.P.M. Section 14: SE/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

B. USA NM 26052

Township 30 North, Range 14 West, N.M.P.M.

Section 14: NW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

C. USA NM 2555

Township 30 North, Range 14 West, N.M.P.M. Section 14: W/2 SW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

D. USA NM 15272

Township 30 North, Range 14 West, N.M.P.M. Section 14: SW/4 SW/4

Operator;

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman

Tenneco 0il Company 720 South Colorado Blvd.

Penthouse

Denver, CO 80222

Attn: J. F. Gavlick

Division Landman

E. USA NM 13213

Township 30 North, Range 14 West, N.M.P.M. Section 14: NW/4 SW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman

F. USA NM 24467

Township 30 North, Range 14 West, N.M.P.M. Section 11: SW/4

Operator:

El Paso Natural Gas Company

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield

Director of Land

G. Unleased Federal Acreage <u>Township 30 North, Range 14 West, N.M.P.M.</u> <u>Section 11: SE/4</u>

USA NM 28760 Township 30 North, Range 14 West, N.M.P.M. Section 12: SW/4

Operator:

Odessa Natural Corporation Box 3908

Odessa, TX 79760 Attn: Jack R. Mundell Director-Land Department

USA NM 6899

Township 30 North, Range 14 West, N.M.P.M. Section 13: W/2

Operator:

Southland Royalty Company

Drawer 870
Farmington, N.M. 87401
Attn: Larry Van Ryan
District Superintendent

# OIL CONSERVATION DIVISION STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Molly Pitcher #2 Well in San Juan County, New Mexico



#### **APPLICATION**

Case 6586

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Molly Pitcher #2 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Molly Pitcher #2 Well is the Applicant Dugan Production Corp.
- 2. The Molly Pitcher #2 Well is located on federal oil and gas lease NM 628 insofar as it covers the following described lands:

Township 30 North, Range 14 West, N.M.P.M.

Section 14: NE/4 (Conner Fruitland Pool Extension)
Section 14: NE/4 (Wildcat Pictured Cliffs Pool)
San Juan County, New Mexico

3. The legal location of the well is as follows:

Township 30 North, Range 14 West, N.M.P.M.

Section 14: 1590' FNL - 790' FEL (Unit Letter H)
San Juan County, New Mexico

- 4. The Molly Pitcher #2 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Molly Pitcher #2 Well is capable of only low marginal production from the Conner Fruitland Pool Extension, and the well is also only capable of low marginal production from the Wildcat Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common.
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these Pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by giving approval to the downhole commingling of the Molly Pitcher #2 Well in San Juan County, New Mexico.

Respectfully Submitted,

Richard T. C. Tully Attorney for Applicant P. O. Box 234 Farmington, N.M. 87401

### CERTIFICATE OF MAILING

I certify that I mailed a copy of the Application for Downhole Commingling of the Molly Pitcher #2 Well in San Juan County, New Mexico to all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division on the

## OFFSETTING LEASES AND OPERATORS

### SAN JUAN COUNTY, NEW MEXICO

A. USA NM 628 (Same Lease)

Township 30 North, Range 14 West, N.M.P.M. Section 14: SE/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

B. USA NM 26052

Township 30 North, Range 14 West, N.M.P.M. Section 14: NW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

C. USA NM 2555

Township 30 North, Range 14 West, N.M.P.M. Section 14: W/2 SW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

D. USA NM 15272

Township 30 North, Range 14 West, N.M.P.M. Section 14: SW/4 SW/4

Dugan Production Corp. Operator;

Box 234

Farmington, A.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman

Tenneco Oil Company 720 South Colorado Blvd.

Penthouse

Denver, CO 80222 Attn: J. F. Gavlick Division Landman

E. USA MM 13213

Township 30 North, Range 14 West, N.M.P.M. Section 14: NW/4 SW/4

Dugan Production Corp. Operator:

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman

F. USA NM 24467

Township 30 North, Range 14 West, N.M.P.M. Section 11: SW/4

Operator:

El Paso Natural Gas Company

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield

Director of Land

G. Unleased Federal Acreage
Township 30 North, Range 14 West, N.M.P.M.
Section 11: SE/4

H. USA NM 28760

Township 30 North, Range 14 West, N.M.P.M.

Section 12: SW/4

Operator: Odessa Natural Corporation

Odessa Natural Corporation

Box 3908

Odessa, TX 79760
Attn: Jack R. Mundell
Director-Land Department

I. USA NM 6899

Township 30 North, Range 14 West, N.M.P.M.

Section 13: W/2
Operator: Southland Royalty Company

Southland Royalty Company

Drawer 870

Farmington, N.M. 87401
Attn: Larry Van Ryan
District Superintendent



# dugan production corp.

June 14, 1979



Joe D. Ramey Division Director New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, N.M. 87501

RE: Application for Downhole Commingling of The Dinero #1 Well (Fruitland-Pictured Cliffs) in San Juan County, New Mexico

Dear Mr. Ramey:

Enclosed are the following instruments concerning the Application for Approval of Downhole Commingling by Dugan Production Corp. for the Dinero #1 Well located in the NE/4 of Section 13, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico.

- 1. Three Copies of the Application.
- 2. Three copies of a Certificate of Mailing stating that all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division have been notified of this Application.

We would appreciate it if you will place this Application for hearing on July 11, 1979.

Thank you for your assistance and cooperation in this matter. Please advise if you need further information.

Sincerely.

Richard T. C. Tully General Counsel

RTCT/sak

**Enclosures** 

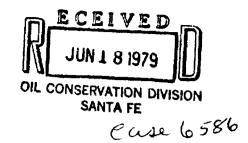
709 BLOOMFIELD RD. . P. O. BOX 234 . FARMINGTON, NEW MEXICO 87401 . PHONE 505-325-0238

#### DISTRIBUTION

- Al R. Kendrick Supervisor, District III Office Energy and Minerals Dept. 1000 Rio Brazos Road Aztec, NM 87410
- 2. Phil T. McGrath
  District Engineer
  U. S. Geological Survey
  Box 959
  Farmington, N.M. 87401
- 3. Exxon Company, U.S.A.
  Box 120
  Denver, CO 80201
  Attn: L. A. Dodd
  Division Landman
- 4. Southland Royalty Company
  Drawer 570
  Farmington, N.M. 87401
  Attn: Larry Van Ryan
  District Superintendent
- 5. Marathon Oil Company
  Box 120
  Casper, Wyoming 82602
  Attn: J. R. Chidley
  Division Landman
- 6. Odessa Natural Corporation
  Box 3908
  Odessa, TX 79760
  Attn: Jack R. Mundell
  Director-Land Department

## OIL CONSERVATION DIVISION STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Dinero #1 Well in San Juan County, New Mexico



#### **APPLICATION**

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Dinero #1 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Dinero #1 Well is the Applicant Dugan Production Corp.
- 2. The Dinero #1 Well is located on federal oil and gas lease SF 079070 insofar as it covers the following described lands:

Township 30 North, kange 14 West, N.M.P.M.

Section 13: NE/4 (Conner Fruitland Pool Extension)
Section 13: NE/4 (Wildcat Pictured Cliffs Pool)
San Juan County, New Mexico

3. The legal location of the well is as follows:

Township 30 North, Range 14 West, N.M.P.M.

Section 13: 1460' FNL - 810' FEI (Unit Letter H)
San Juan County, New Mexico

- 4. The Dinero #1 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Dinero #1 Well is capable of only low marginal production from the Conner Fruitland Pool Extension, and the well is also only capable of low marginal production from the Wildcat Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common,
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these Pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by giving approval to the downhole commingling of the Dinero #1 Well in San Juan County, New Mexico.

Respectfully submitted,

Richard T. C. Tully Attorney for Applicant

P. O. Box 234

Farmington, N.M. 87401

#### CERTIFICATE OF MAILING

#### OFFSETTING LEASES AND OPERATORS

SAN JUAN COUNTY, NEW MEXICO

A. USA SF 079070 (Same Lease)

Township 30 North, Range 14 West, N.M.P.M.

Section 12: SE/4 Section 13: SE/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

Exxon Company, U.S.A.

Box 120

Denver, CO 80201 Attn: L. A. Dodd

Division Landman

i

B. USA NM 6899

Township 30 North, Range 14 West, N.M.P.M. Section 13: W/2

Operator:

Southland Royalty Company

Drawer 870

Farmington, N.M. 87401 Attn: Larry Van Ryan

District Superintendent

C. USA NM 28760

Township 30 North, Range 14 West, N.M.P.M. Section 12: SW/4

Operator:

Odessa Natural Corporation

Box 3908

Odessa, TX 79760 Attn: Jack R. Mundell Director-Land Department

USA NM 09867-A

Township 30 North, Range 13 West, N.M.P.M.

Section 7: SW/4

W/2 Section 18:

Operator:

Marathon Oil Company

Box 120

Casper, Wyoming 82602 Attn: J. R. Chidley Division Landman

# OIL CONSERVATION DIVISION STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Dinero #1 Well in San Juan County, New Mexico



#### <u>APPLICATION</u>

Cuse 6586

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Dinero #1 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Dinero #1 Well is the Applicant Dugan Production Corp.
- 2. The Dinero #1 Well is located on federal oil and gas lease SF 079070 insofar as it covers the following described lands:

Township 30 North, Range 14 West, N.M.P.M.

Section 13: NE/4 (Conner Fruitland Pool Extension)
Section 13: NE/4 (Wildcat Pictured Cliffs Pool)
San Juan County, New Mexico

3. The legal location of the well is as follows:

Township 30 North, Range 14 West, N.M.P.M.

Section 13: 1460' FNL - 810' FE1 (Unit Letter H)

San Juan County, New Mexico

- 4. The Dinero #1 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Dinero #1 Well is capable of only low marginal production from the Conner Fruitland Pool Extension, and the well is also only capable of low marginal production from the Wildcat Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common.
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these Pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by giving approval to the downhole commingling of the Dinero #1 Well in San Juan County, New Mexico.

Respectfully submitted,

Richard T. C. Tully Attorney for Applicant P. O. Box 234

Farmington, N.M. 87401

#### CERTIFICATE OF MAILING

### OFFSETTING LEASES AND OPERATORS SAN JUAN COUNTY, NEW MEXICO

A. USA SF 079070 (Same Lease)

Township 30 North, Range 14 West, N.M.P.M.
Section 12: SE/4

SE/4 Section 13:

Dugan Production Corp. Operator:

Box 234

Farmington, N.M. 87401

Exxon Company, U.S.A.

Box 120

Denver, CO 80201 Attn: L. A. Dodd

Division Landman

USA NM 6899

Township 30 North, Range 14 West, N.M.P.M. Section 13: W/2

Southland Royalty Company

Drawer 870

Farmington, N.M. 87401
Attn: Larry Van Ryan
District Superintendent

C. USA NM 28760

Operator:

Township 30 North, Range 14 West, N.M.P.M.
Section 12: SW/4

Operator:

Odessa Natural Corporation

Box 3908

Odessa, TX 79760 Attn: Jack R. Mundell Director-Land Department

USA NM 09867-A

Township 30 North, Range 13 West, N.M.P.M. Section 7: SW/4

Section 18: W/2

Operator:

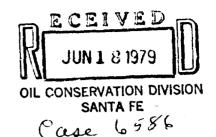
Marathon 011 Company

Box 120

Casper, Wyoming 82602 Attn: J. R. Chidley Division Landman

# OIL CONSERVATION DIVISION STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Dinero #1 Well in San Juan County, New Mexico



#### **APPLICATION**

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Dinero #1 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Dinero #1 Well is the Applicant Dugan Production Corp.
- 2. The Dinero #1 Well is located on federal oil and gas lease SF 079070 insofar as it covers the following described lands:

Township 30 North, Range 14 West, N.M.P.M.

Section 13: NE/4 (Conner Fruitland Pool Extension)
Section 13: NE/4 (Wildcat Pictured Cliffs Pool)
San Juan County, New Mexico

3. The legal location of the well is as follows:

Township 30 North, Range 14 West, N.M.P.M.

Section 13: 1460' FNL - 810' FEI (Unit Letter H)
San Juan County, New Mexico

- 4. The <u>Dinero</u> #1 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Dinero #1 Well is capable of only low marginal production from the Conner Fruitland Pool Extension, and the well is also only capable of low marginal production from the Wildcat Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common,
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these Pools, thereby preventing waste, and the commingling will not violate correlative rights.

wherefore, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by giving approval to the downhole commingling of the Dinero #1 Well in San Juan County, New Mexico.

Respectfully submitted,

Richard T. C. Tully Attorney for Applicant P. O. Box 234

Farmington, N.M. 87401

### CERTIFICATE OF MAILING

### OFFSETTING LEASES AND OPERATORS SAN JUAN COUNTY, NEW MEXICO

A. USA SF 079070 (Same Lease)

Township 30 North, Range 14 West, N.M.P.M. Section 12: SE/4

Section 13: SE/4

Dugan Production Corp. Operator:

Box 234

Farmington, N.M. 87401

Exxon Company, U.S.A.

Box 120

Denver, CO 80201 Attn: L. A. Dodd

Division Landman

B. USA NM 6899

Township 30 North, Range 14 West, N.M.P.M. Section 13: W/2

Operator: Southland Royalty Company

Drawer 870

Farmington, N.M. 87401
Attn: Larry Van Ryan
District Superintendent

C. USA NM 28760

Township 30 North, Range 14 West, N.M.P.M. Section 12: SW/4

Operator:

Odessa Natural Corporation

Box 3908

Odessa, TX 79760 Attn: Jack R. Mundell Director-Land Department

USA NM 09867-A

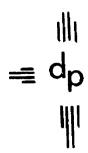
Township 30 North, Range 13 West, N.M.P.M. Section 7: SW/4

Section 18: W/2

Marathon Oil Company Operator:

Box 120

Casper, Wyoming 82602 Attn: J. R. Chidley Division Landman



# dugan production corp.

June 14, 1979

Joe D. Ramey Division Director New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, N.M. 87501

RE: Application for Downhole Commingling of the Big Field #5 Well (Fruitland and Pictured Cliffs) in San Juan County, New Mexico

Dear Mr. Ramey:

Enclosed are the following instruments concerning the Application for Approval of Downhole Commingling by Dugan Production Corp. for the Big Field #5 Well to be located in the SE/4 of Section 10, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico.

- 1. Three copies of the Application.
- 2. Three copies of a Certificate of Mailing stating that all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division have been notified of this Application.

We would appreciate it if you will place this Application for hearing on July 11, 1979.

Thank you for your assistance and cooperation in this matter. Please advise if you need further information.

Sincerely

Richard T. C. Tully General Counsel

RTCT/sak

**Enclosures** 

# OIL CONSERVATION DIVISION STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Big Field #5 Well in San Juan County, New Mexico

Case 6 586

#### **APPLICATION**

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Big Field #5 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Big Field #5 Well will be the Applicant Dugan Production Corp.
- 2. The Big Field #5 Well will be located on federal oil and gas lease NM 10561 insofar as it covers the following described lands;

Township 30 North, Range 14 West, N.M.P.M.

Section 10: SE/4 (Conner Fruitland Pool Extension)
Section 10: SE/4 (Wildcat Pictured Cliffs Pool)
San Juan County, New Mexico

3. The legal location of the well will be as follows:

Township 30 North, Range 14 West, N.M.P.M.
Section 10: Unit Letter P
San Juan County, New Mexico

- 4. The Big Field #5 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Big Field #2 Well will be capable of only low marginal production from the Conner Fruitland Pool Extension, and from the Wildcate Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common.
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by giving approval to the downhole commingling of the Big Field #5 Well in San Juan County, New Mexico.

Respectfully submitted,

Richard T. C. Tully Attorney for Applicant P. O. Box 234

Farmington, N.M. 87401

#### CERTIFICATE OF MAILING

I certify that I mailed a copy of the Application for Downhole Commingling of the Big Field #5 Well in San Juan County, New Mexico to all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division on the

#### OFFSETTING LEASES AND OPERATORS

San Juan County, New Mexico

A. USA NM 10561 (Same Lease)

Township 30 North, Range 14 West, N.M.P.M.

Section 10: N/2, SW/4

Dugan Production Corp. Operator:

P. O. Box 234
Farmington, N.M. 87401

B. USA NM 24467

Township 30 North, Range 14 West, N.M.P.M. Section 11: W/2

El Paso Natural Gas Company Operator:

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield Director of Land

C. USA NM 26052

Township 30 North, Range 14 West, N.M.P.M.

Section 14: NW/4

Operator: Dugan Production Corp.

Box 234

Farmington, N.M. 87401

D. USA NM 28820

Township 30 North, Range 14 West, N.M.P.M. Section 15: NE/4, E/2 NW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139

Attn: R. E. Pittam Staff Landman

E. USA NM 23473

Township 30 North, Range 14 West, N.M.P.M. Section 15: SW/4 NW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman

Tenneco Oil Company 720 South Colorado Blvd,

Penthouse

Denver, CO 80222 Attn: J. F. Gavlick, Division Landman

F. USA NM 3565

Township 30 North, Range 14 West, N.M.P.M. Section 15: NW/4 NW/4

Operator:

Dugan Production Corp.

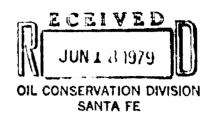
Box 234

Farmington, N.M. 87401

### OIL CONSERVATION DIVISION

#### STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Big Field #5 Well in San Juan County, New Mexico



Cuse (0586

#### APPLICATION

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Big Field #5 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Big Field #5 Well will be the Applicant Dugan Production Corp.
- 2. The Big Field #5 Well will be located on federal oil and gas lease NM 10561 insofar as it covers the following described lands:

Township 30 North, Range 14 West, N.M.P.M.

Section 10: SE/4 (Conner Fruitland Pool Extension)

Section 10: SE/4 (Wildcat Pictured Cliffs Pool)

San Juan County, New Mexico

3. The legal location of the well will be as follows:

Township 30 North, Range 14 West, N.M.P.M.
Section 10: Unit Letter P
San Juan County, New Mexico

- 4. The Big Field #5 Well is not currently dually completed in the Conner Fruitrand Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Big Field #2 Well will be capable of only low marginal production from the Conner Fruitland Pool Extension, and from the Wildcate Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common.
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these pools, thereby preventing waste, and the commingling will not violate correlative rights.

where on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by giving approval to the downhole commingling of the Big Field #5 Well in San Juan County, New Mexico.

Respectfully submitted,

Richard T. C. Tully Attorney for Applicant P. O. Box 234

Farmington, N.M. 87401

#### CERTIFICATE OF MAILING

#### OFFSETTING LEASES AND OPERATORS

#### San Juan County, New Mexico

A. USA NM 10561 (Same Lease)
Township 30 North, Range 14 West, N.M.P.M.

Section 10: N/2, SW/4

Dugan Production Corp. Operator:

P. 0. Box 234
Farmington, N.M. 87401

B. USA NM 24467

Township 30 North, Range 14 West, N.M.P.M. Section 11: W/2

Operator:

El Paso Natural Gas Company

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield Director of Land

C. USA NM 26052

Township 30 North, Range 14 West, N.M.P.M. Section 14: NW/4

Section 14:

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

D. USA NM 28820

Township 30 North, Range 14 West, N.M.P.M.

NE/4, E/2 NW/4 Section 15:

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139

Attn: R. E. Pittam Staff Landman

E, USA NM 23473

Township 30 North, Range 14 West, N.M.P.M. Section 15: SW/4 NW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman

Tenneco Oil Company 720 South Colorado Blvd.

Penthouse

Denver, CO 80222

Attn: J. F. Gavlick, Division Landman

F. USA NM 3565

Township 30 North, Range 14 West, N.M.P.M. Section 15: NW/4 NW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

# OIL CONSERVATION DIVISION STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Big Field #5 Well in San Juan County, New Mexico

JUN I 3 1979 OIL CONSERVATION DIVISION SANTA FE euse 6586

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## APPLICATION

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Big Field #5 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Big Field #5 Well will be the Applicant Dugan
- 2. The Big Field #5 Well will be located on federal oil and gas lease Production Corp. NM 10561 insofar as it covers the following described lands;

Township 30 North, Range 14 West, N.M.P.M.
Section 10: SE/4 (Conner Fruitland Po Section 10: SE/4 (Conner Fruitland Pool Extension)
Section 10: SE/4 (Wildcat Pictured Cliffs Pool) San Juan County, New Mexico

3. The legal location of the well will be as follows:

Township 30 North, Range 14 West, N.M.P.M. Section 10: Unit Letter P San Juan County, New Mexico

- 4. The Big Field #5 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Big Field #2 Well will be capable of only low marginal production from the Conner Fruitland Pool Extension, and from the Wildcar Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common.
  - 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by giving approval to the downhole commingling of the Big Field #5 Well in San Juan County, New Mexico.

Respectfully submitted,

Richard T. C. Tully Attorney for Applicant

P. 0. Box 234 Farmington, N.M. 87401

#### CERTIFICATE OF MAILING

I certify that I mailed a copy of the Application for Downhole Commingling of the Big Field #5 Well in San Juan County, New Mexico to all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division on the \_\_\_\_\_\_\_\_ day of June, 1979.

#### OFFSETTING LEASES AND OPERATORS

San Juan County, New Mexico

A. USA NM 10561 (Same Lease)

Township 30 North, Range 14 West, N.M.P.M. Section 10: N/2, SW/4

Dugan Production Corp. Operator:

P. O. Box 234
Farmington, N.M. 87401

B. USA NM 24467

Township 30 North, Range 14 West, N.M.P.M. Section 11: W/2

Operator:

El Paso Natural Gas Company

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield Director of Land

C. USA NM 26052

Township 30 North, Range 14 West, N.M.P.M.

Section 14: NW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

D. USA NM 28820

Township 30 North, Range 14 West, N.M.P.M. Section 15: NE/4, E/2 NW/4

Operator:

Dugan Production Corp.

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139

Attn: R. E. Pittam Staff Landman

E. USA NM 23473

Township 30 North, Range 14 West, N.M.P.M. Section 15: SW/4 NW/4

Dugan Production Corp. Operator:

Box 234

Farmington, N.M. 87401

Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman

Tenneco Oil Company 720 South Colorado Blvd.

Penthouse

Denver, CO 80222 Attn: J. F. Gavlick, Division Landman

F. USA NM 3565

Township 30 North, Range 14 West, N.M.P.M.

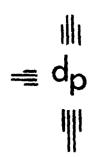
NW/4 NW/4 Section 15:

Operator:

Dugan Production Corp,

Box 234

Farmington, N.M. 87401



# dugan production corp.

June 14, 1979

Joe D. Ramey
Division Director
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87501



RE: Application for Downhole Commingling of the Big Field #2 Well (Fruitland and Pictured Cliffs) in San Juan County, New Mexico

Dear Mr. Ramey:

Enclosed are the following instruments concerning the Application for Approval of Downhole Commingling by Dugan Production Corp. for the Big Field #2 Well located in the NW/4 of Section 3, Township 30 North, Range 14 West, N.M.P.M., San Juan County, New Mexico.

- 1. Three copies of the Application.
- 2. Three copies of a Certificate of Mailing stating that all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division have been notified of this Application.

We would appreciate it if you will place this Application for hearing on July 11, 1979.

Thank you for your assistance and cooperation in this matter. Please advise if you need further information.

Sincerely,

Richard T. C. Tully General Counsel

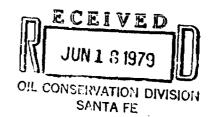
RTCT/sak

**Enclosures** 

709 BLOOMFIELD RD. . P. O. BOX 23/ . FARMINGTON, NEW MEXICO 87401 . PHONE 505-325-0238

# OIL CONSERVATION DIVISION STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Big Field #2 Well in San Juan County, New Mexico



Case 6586

#### APPLICATION

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Big Field #2 Well in San Juan County, New Mexico.

The Applicant further states:

- The Operator of the Big Field #2 Well is the Applicant Dugan Production Corp.
- 2. The Big Field #2 Well is located on federal oil and gas leases
  NM 10561 and NM 17782 insofar as they cover the following described lands:

Township 30 North, Range 14 West, N.M.P.M.

Section 3: NW/4 (Conner Fruitland Pool Extension)
Section 3: NW/4 (Wildcat Pictured Cliffs Pool)
San Juan County, New Mexico

3. The legal location of the well is as follows:

Township 30 North, Range 14 West, N.M.P.M.
Section 3: 790' FNL - 1850' FWL (Unit Letter C)
San Juan County, New Mexico

- 4. The Big Field #2 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Big Field #2 Well is capable of only low marginal production from the Conner Fruitland Pool Extension, and the well is also only capable of low marginal production from the Wildcat Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common.
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these Pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by given approval to the downhole commingling of the Big Field #2 Well in San Juan County, New Mexico.

Respectfully submitted,

Richard T. C. Tully Attorney for Applicant

Box 234

Farmington, N.M. 87401

## CERTIFICATE OF MAILING

I certify that I mailed a copy of the Application for Downhole Commingling of the Big Field #2 Well in San Juan County, New Mexico to all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division on the 14th day of June, 1979.

Attorney for Applicant

#### OFFSETTING LEASES AND OPERATORS

#### SAN JUAN COUNTY, NEW MEXICO

USA NM 10561 (Same Lease)

Township 30 North, Range 14 West, N.M.P.M.

Section 3:

NE/4, SW/4
Dugan Production Corp. Operator:

Box 234

Farmington, N.M. 87401

B. USA NM 24467

Township 30 North, Range 14 West, N.M.P.M. Section 3: SE/4

El Paso Natural Gas Company Operator:

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield Director of Land

C. USA NM 16765

Township 30 North, Range 14 West, N.M.P.M.

Section 4: N/2 NE/4, SW/4 NE/4

Operator: Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139

Attn: R. E. Pittam Staff Landman

D. USA NM 19403

Township 30 North, Range 14 West, N.M.P.M. Section 4: SE/4 NE/4, E/2 SE/4

Marshall and Winston, Inc. Operator:

Box 874

Midland, TX 79702 Attn: William S. Marshall

President

E. USA NM 27177

Township 30 North, Range 14 West, N.M.P.M. Section 4: W/2 SE/4

Operator:

El Paso Natural Gas Company

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield Director of Land

F. Ute Mountain Unleased Tribal Acreage Township 31 North, Range 14 West, N.M.P.M. Section 34; S/2

G, Ute Mountain Unleased Tribal Acreage Township 31 North, Range 14 West, N.M.P.M. Section 33: SE/4

#### OIL CONSERVATION DIVISION

#### STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Big Field #2 Well in San Juan County, New Mexico



Case 6586

#### **APPLICATION**

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Big Field #2 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Big Field #2 Well is the Applicant Dugan Production Corp.
- 2. The Big Field #2 Well is located on federal oil and gas leases
  NM 10561 and NM 17782 insofar as they cover the following described lands:

Township 30 North, Range 14 West, N.M.P.M.

Section 3: NW/4 (Conner Fruitland Pool Extension)
Section 3: NW/4 (Wildcat Pictured Cliffs Pool)
San Juan County, New Mexico

3. The legal location of the well is as follows:

Township 30 North, Range 14 West, N.M.P.M.

Section 3: 790' FNL - 1850' FWL (Unit Letter C)
San Juan County, New Mexico

- 4. The Big Field #2 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Big Field #2 Well is capable of only low marginal production from the Conner Fruitland Pool Extension, and the well is also only capable of low marginal production from the Wildcat Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common.
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these Pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by given approval to the downhole commingling of the Big Field #2 Well in San Juan County, New Mexico.

Respectfully submitted,

Richard T. C. Tully Attorney for Applicant

Box 234 Farmington, N.M. 87401

### CERTIFICATE OF MAILING

I certify that I mailed a copy of the Application for Downhole Commingling of the Big Field #2 Well in San Juan County, New Mexico to all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division on the 14th day of June, 1979.

Richard T. C. Tully Attorney for Applicant

## OFFSETTING LEASES AND OPERATORS

SAN JUAN COUNTY, NEW MEXICO

A. USA NM 10561 (Same Lease)

Township 30 North, Range 14 West, N.M.P.M.

Section 3: NE/4, SW/4

Operator: Dugan Production Corp.

Box 234

Farmington, N.M. 87401

B. USA NM 24467

Township 30 North, Range 14 West, N.M.P.M.
Section 3: SE/4

Operator:

El Paso Natural Gas Company

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield Director of Land

C. USA NM 16765

Township 30 North, Range 14 West, N.M.P.M. Section 4: N/2 NE/4, SW/4 NE/4

Mountain Fuel Supply Company Operator:

Box 11368

Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman

D. USA NM 19403

Township 30 North, Range 14 West, N.M.P.M.
Section 4: SE/4 NE/4, E/2 SE/4

Operator: Marshall and Winston, Inc.

Box 874

Midland, TX 79702

Attn: William S. Marshall

President

E. USA NM 27177

Township 30 North, Range 14 West, N.M.P.M.
Section 4: W/2 SE/4

Operator:

El Paso Natural Gas Company

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield

Director of Land

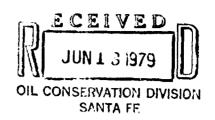
F. Ute Mountain Unleased Tribal Acreage Township 31 North, Range 14 West, N.M.P.M. Section 34; S/2

G. Ute Mountain Unleased Tribal Acreage Township 31 North, Range 14 West, N.M.P.M. Section 33: SE/4

#### OIL CONSERVATION DIVISION

#### STATE OF NEW MEXICO

In the Matter of the Application of Dugan Production Corp. for Downhole Commingling of the Big Field #2 Well in San Juan County, New Mexico



Case 6 586

#### **APPLICATION**

Pursuant to Rule 303 C of the Rules and Regulations of the State of New Mexico Oil Conservation Division, the Applicant, Dugan Production Corp., by and through its attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Big Field #2 Well in San Juan County, New Mexico.

The Applicant further states:

- 1. The Operator of the Big Field #2 Well is the Applicant Dugan Production Corp.
- 2. The Big Field #2 Well is located on federal oil and gas leases

  NM 10561 and NM 17782 insofar as they cover the following described lands:

Township 30 North, Range 14 West, N.M.P.M.

Section 3: NW/4 (Conner Fruitland Pool Extension)
Section 3: NW/4 (Wildcat Pictured Cliffs Pool)
San Juan County, New Mexico

3. The legal location of the well is as follows:

Township 30 North, Range 14 West, N.M.P.M.
Section 3: 790' FNL - 1850' FWL (Unit Letter C)
San Juan County, New Mexico

- 4. The Big Field #2 Well is not currently dually completed in the Conner Fruitland Pool Extension and the Wildcat Pictured Cliffs Pool.
- 5. The Big Field #2 Well is capable of only low marginal production from the Conner Fruitland Pool Extension, and the well is also only capable of low marginal production from the Wildcat Pictured Cliffs Pool.
  - 6. The ownership of the above mentioned Pools is common.
- 7. The proposed commingling from the above Pools will result in the recovery of additional hydrocarbons from each of these Pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on July 11, 1979, and that after this hearing the New Mexico Oil Conservation Division grant this Application by given approval to the downhole commingling of the Big Field #2 Well in San Juan County, New Mexico.

Respectfully submitted,

Richard T. C. Tully Attorney for Applicant Box 234 Farmington, N.M. 87401

#### CERTIFICATE OF MAILING

I certify that I mailed a copy of the Application for Downhole Commingling of the Big Field #2 Well in San Juan County, New Mexico to all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the New Mexico Oil Conservation Division on the 14th day of June, 1979.

Richard T. C. Tully Attorney for Applicant

## OFFSETTING LEASES AND OPERATORS

## SAN JUAN COUNTY, NEW MEXICO

A. USA NM 10561 (Same Lease)

Township 30 North, Range 14 West, N.M.P.M.

Section 3: NE/4, SW/4

Dugan Production Corp. Operator:

Box 234

Farmington, N.M. 87401

B. IJSA NM 24467

Township 30 North, Range 14 West, N.M.P.M.

SE/4 Section 3:

El Paso Natural Gas Company Operator:

Box 1492

E1 Paso, TX 79978 Attn: D. N. Confield Director of Land

C. USA NM 16765

Township 30 North, Range 14 West, N.M.P.M.

Section 4: N/2 NE/4, SW/4 NE/4

Operator: Mountain Fuel Supply Company

Box 11368

Salt Lake City, UT 84139 Attn: R. E. Pittam Staff Landman

D. USA NM 19403

Township 30 North, Range 14 West, N.M.P.M. Section 4: SE/4 NE/4, E/2 SE/4

Marshall and Winston, Inc. Operator:

Box 874

Midland, TX 79702 Attn: William S. Marshall

President

USA NM 27177

Township 30 North, Range 14 West, N.M.P.M. Section 4: W/2 SE/4

El Paso Natural Gas Company Operator:

Box 1492

El Paso, TX 79978 Attn: D. N. Canfield

Director of Land

Ute Mountain Unleased Tribal Acreage Township 31 North, Range 14 West, N.M.P.M. Section 34; S/2

G. Ute Mountain Unleased Tribal Acreage Township 31 North, Range 14 West, N.M.P.M. Section 33: SE/4

## STATE OF NEW MEDICO ENERGY AND MINERALS DEPART OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

2/1	

CASE :	.0	6586	
Order	No.	R-60	64

APPLICATION OF \_\_DUGAN PRODUCTION CORPORATION

FOR DOWNHOLE COMMINGLING, SAN JUAN

COUNTY, NEW MEXICO.

### ORDER OF THE DIVISION

#### BY THE DIVISION:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, <u>Dugan Production Corporation</u>, is
  the owner and operator of the <u>following wells</u>, all in <u>Township</u>, 30
  North, Range 14 West, NMPM, San Juan County, New Mexico:

George War

Big Field Well No. 2 in Unit C of Section 3; Big Field Well No. 5 in Unit P of Section 10; Dinero Well No. 1 in Unit H of Section 13; and the Molly Pitcher Well No. 2 in Unit H of Section 14.

- (4) That from the Conner-Fruitland zone, the auer an expected to be subject well, is capable of low marginal production only.
- (5) That from the <u>undesignated Pictured</u> zone, the and an expected to be subject wells is capable of low marginal production only.
- (6) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.
- (7) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.
- (8) That to afford the Division the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec any of the district office of the Division any time/the subject wells is are shut-in for 7 consecutive days.
- (9) That in order to allocate the commingled production to each of the commingled zones in the subject wells percent of the commingled production should be allocated to the conner-Fruitland zone, and percent of the commingled production to the undesignated Pictured Cliffs zone.

#### (ALTEDNATE)

(9) That in order to allocate the commingled production to each of the commingled zones in the wells, applicant should consult with the supervisor of the Aztec district office of the Division and determine an allocation formula for each of the production zones.

designated.

IT IS THEREFO'E ORDERED:
(1) That the applicant, Dugan Production Corporation, is
hereby authorized to commingle Conner-Fruitland and
undesignated Pictured Cliffs production within the wellbores of
the following wells, located-in-Unitef all in Township 30 North, Range 14 West, NMPM, San Juan County, Section, lownship
NMPM, New Mexico:
Big Field Well No. 2 in Unit C of Section 3; Big Field Well No. 5 in Unit P of Section 10; Dinero Well No. 1 in Unit H of Section 13; and the Molly Pitcher Well No. 2 in Unit H of Section 14.
to each zone in each of the subject wells.
() That percent of the commingled production shall be allocated to the Conner-Fruitland
zone and percent of the commingled
production shall be allocated to the undesignated Pictured Cliffs
zone.
(3) That the operator of the subject well shall immediately
notify the Division's Aztec district office any time the
well has been shut-in for 7 consecutive days and shall concurrently
present, to the Division, a plan for remedial action.
(4) That jurisdiction of this cause is retained for the
entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove