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NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS **Application Acronyms:** [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] TYPE OF APPLICATION - Check Those Which Apply for [A] [1] Location - Spacing Unit - Directional Drilling [A] □ SD DINSL ☐ NSP Check One Only for [B] or [C] Commingling - Storage - Measurement OLS OLS ☑ DHC □ CTB ☐ PLC ☐ PC OLM OLM [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☐ IPI ☐ EOR ☐ PPR NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners [A] Offset Operators, Leaseholders or Surface Owner [B]

[2]

[C]Application is One Which Requires Published Legal Notice

[D]☐ Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

For all of the above, Proof of Notification or Publication is Attached, and/or, [E]

[F] ☐ Waivers are Attached

INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding [3]

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity



WALSHI

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892

November 17, 1997

Mr. William J. LeMay New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088



Re: Application for Downhole Commingling
Thompson Engineering and Production Corp.
State #1
790 FNL, 790' FEL, Section 2, T26N R13W
San Juan County, New Mexico
Basin Fruitland Coal and WAW Fruitland Sand - PC

Dear Mr. LeMay,

This is a request for administrative approval for downhole commingling of the production from the Basin Fruitland Coal and WAW Fruitland Sand - Pictured Cliffs pools.

I have attached for your review, an acreage plat outlining the dedicated acreage, offset wells and offset operators. I have also included a proposed allocation formula with a short discussion of the history of the well.

The offset Fruitland Coal operators are being notified of this application by certified return receipt mail. Copies of these letters are enclosed.

Thank you for your consideration and approval of this application. If you have any questions please do not hesitate to call upon me.

Sincerely,

Paul C. Thompson, P.E.

President

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1880

DISTRICT II

611 South First St., Artesia, NA 68210-2835

DISTRICT III

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

APPROVAL PROCESS:

X Administrative __Hearing EXISTING WELLBORE

AP.

PLICATION	FOR D	OOWNE	IOLE (COMMI	INGLING	
	:					

Thompson Engr. & Prod	. Corp. 7415 I	E. Main Farmington,	New Mexico 87402
State	1 A 2-26 Well No. Unit Ltr	5N-13W . · Sec · Twp · Rge	San Juan County
GRID NO. 037581 Property Code		Specing t	Init Lease Types: (check 1 or more), State X, (and/or) Fee
The following facts are submitted in support of downhola commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Basin Fruitland Coal		WAW Fruitland Sand 87190
2. Top and Bottom of Pay Section (Perforations)	1191 - 1206		1212 - 1234
3. Type of production (Oil or Gas)	Gas		Gas
4. Mathod of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing:	B. (Current) Est. 175	8.	a. 175
All Gas Zones: Measured Current Estimated Or Measured Original	b. (Original)	b.	ъ. 236
6. Oil Gravity (*API) or Gas BTU Content	Est. 1000		1018
7. Producing of Shut-in?	Not Completed		Produc ing
Production Marginal? (yes or no)	Unknown		No
If Shut-in, give date and oil/gas/ water rates of last production i	Date: Rates:	Date: Rates:	Date: Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			10/15/07
 If Producing, give date andoll/gas/ water rates of recent test (within 60 days) 	Date: Rates:	Oate: Rates:	Date: 10/15/97 Reces: 75 MCF/D 2 BW
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Ges: %	Oii: % Gas: %	Oit: Gos: %
 if allocation formula is based submit attachments with sup Are all working, overriding, a if not, have all working, over Have all offset operators beer 		all commingled zones?	X Yes No
1. Will cross-flow occur? I flowed production be recover	Yes X No If yes, are fluids ed, and will the allocation form	compatible, will the formations nula be reliable Yes	not be damaged, will any c No (If No, attach explana
2. Are all produced fluids from	all commingled zones compatit	ole with each other? X	Yes No
Will the value of production to If this well is on, or commun. United States Bureau of Lance			
5. NMOCD Reference Cases for			
• For zones with no	ne to be commingled showing or each zone for at least one y production history, estimated location method or formula. all offset operators. working, overriding, and royal tements, data, or documents r	its spacing unit and acreage determined its spacing unit and acreage determined its space of the	edication. xplanation.) g data.
hereby certify that the informat	ion above is true and complete	to the best of my knowledge	and belief.
SIGNATURE Paul C.	Champson	TITLE President	DATE11/18/97
TYPE OR PRINT NAME Paul	C. Thompson	TELEPHONE NO. (505) 327-4002

_ TELEPHONE NO. (505) 327-4892

District I PO Box 1996, Hobbs, NM \$5241-1999 District II

PO Drawer DD, Artesia, NM 88211-6719 District III

1000 Rio Brazos Rd., Aztoc, NM \$7416

District IV

PO Box 2008, Santa Fe, NM 87504-2008

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

'API N	mber		1 Pool Coc	k		¹ Pool N	Linc		
30-045-22	575		71629	- 1	Basin Fruitland Coal				
⁴ Property Code				1 Property	Name			Well Number	
19038			St	ațe	·		1		
OGRID No.			Operator Name						
037581	Tho	npson Er	ngineer	. Corp			6006 GL		
				10 Surface	Location				
UL or lot so. Section	a Townski	p Range	Lot Ida	Feet from the	North/South Lac	Foot from the	East/West fine	County	
A 2	26N	13W		790	North	790	East	San Juan	
	<u>-</u> -	11 Bot	tom Hol	e Location I	f Different Fr	om Surface			
UL or lot so. Section	a Township	Range	Lot Ida	Feet from the	North/South Enc	Foot from the	East/West East	County	
		1							
Dedicer : Acres 4 Je	at or laft!	4 Consolidatio	e Code "	Order No.				12.	
	1		1					-	

16		790 —	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my browledge and belief
			Faul C. Thompson Printed Name President Title
			11/18/97 Date 18SURVEYOR CERTIFICATION
			I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey
			Signature and Scal of Professional Surveyer:

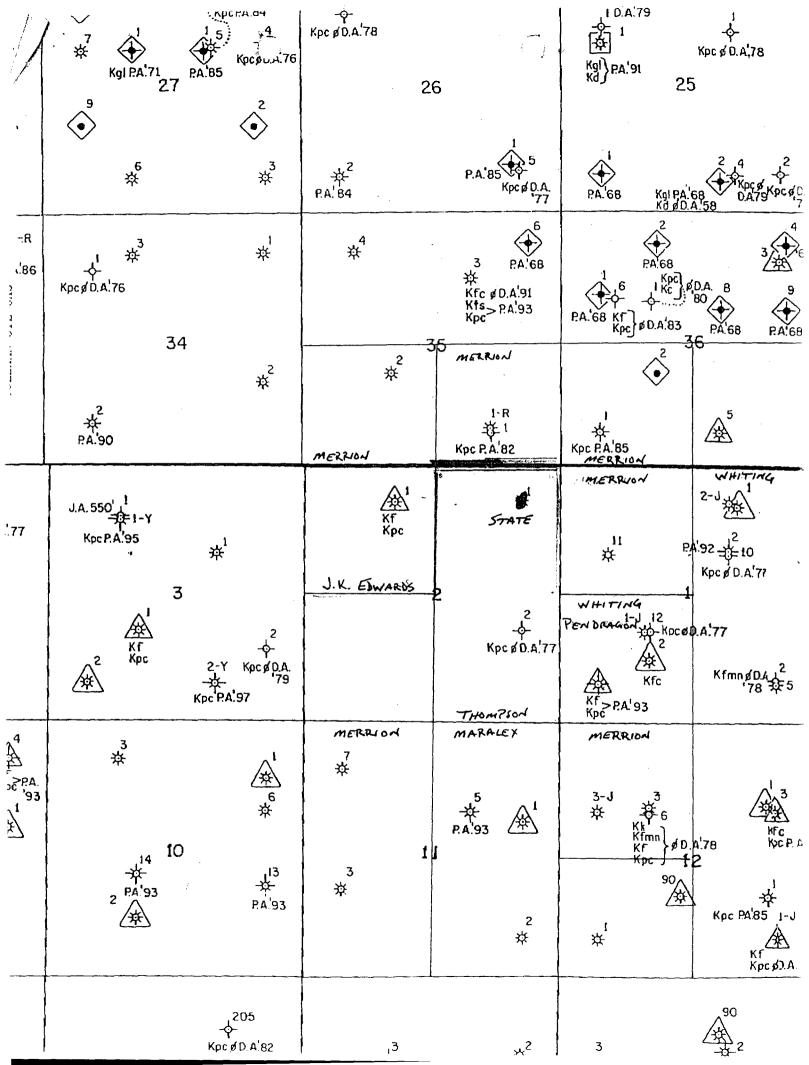
District I PO Box 1904, Hobbs, NM \$2241-1900 District II PO Drawer DD, Artesia, NM \$2211-0719 District III 1000 Rio Brazzo Rd., Axtoc, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
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District (V ☐ AMENDED REPORT PO Box 2008, Santa Fe. NM 87504-2008 WELL LOCATION AND ACREAGE DEDICATION PLAT 1 Pool Code Pool Name API Number 30-045-22575 87190 WAW Fruitland Sand - Pictured Cliffs Property Name Well Number 1 Property Code 19038 State Operator Name · Elevation OCRID No. 037581 Thompson Engineering & Prod. Corp. 6006 GL 16 Surface Location Foot from the North/South Kae Foot from the East/West fine Township Range Lot Ida County UL or lot so. Section 2 13W Α 26N 790 North 790 East San Juan 11 Bottom Hole Location If Different From Surface UL or lot ac. Section Township Range Lot Ide Feet from the North/South Ene Foot from the East/West East County " Dodice : Acres " Joint or Infill " Consolidation Code " Order No. 160 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 16 OPERATOR CERTIFICATION I hereby certify that the information contained herein is 790 true and complete to the best of my knowledge and belief 790 -Paul C. Thompson Printed Name President Title 11/18/97 14SURVEYOR CERTIFICATION ! hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Soal of Professional Surveyor.

Certificate Number



STATE #1 SEC 2, 26N, R12W

OPERATORS IN OFFSET 160 ACRES

SEC 1	NE	COAL	WHITING PETROLEUM CORP. GALLEGOS FED. 26-13-01 #1
SEC 1	NW	PC	MERRION OIL & GAS CORPORATION CHACO #11
SEC 1	sw	PC	PENDRAGON ENERGY PARTNERS, INC. CHACO LTD. #1J
SEC 1	SW	COAL	WHITING PETROLEUM CORP. GALLEGOS FED. 26-13-01 #2
SEC 2	NW	PĊ	EDWARDS, J.K., ASSOC. INC. BARTLESVILLE #1
SEC 11	NE	COAL	MARALEX RESOURCES INC. GALLEGOS FED. 26-13-11 #1
SEC 11	NW	PC	MERRION OIL & GAS CORPORATION SOUTHLAND #7
SEC 12	NW	PC	MERRION OIL & GAS CORPORATION CHACO LTD. #3J
SEC 12	NW	PC	MERRION OIL & GAS CORPORATION CHACO LTD #3
SEC 12	NE	COAL	WHITING PETROLEUM CORP. GALLEGOS FED. 26-13-12 #1
SEC 12	SW	COAL	DUGAN PRODUCTION CORP. DOME NAVAHO 26-13-12 #90
SEC 12	SW	PC	DUGAN PRODUCTION CORP. DOME NAVAHO 26-13-12 #1
SEC 35	SW	PC	MERRION OIL & GAS CORPORATION HIGH ROLL #2
SEC 35	SE	PC	MERRION OIL & GAS CORPORATION HIGH ROLL #1R
SEC 36	sw		MERRION OIL & GAS CORPORATION

State #1 Downhole Commingling Application

Allocation Formula

The WAW Fruitland Sand - Pictured Cliffs was completed by Dietrich Exploration Company in July of 1995. Thompson Engineering and Production Corp. purchased the well from Max Webb and re-fraced the Upper Pictured Cliffs bench in August of 1996. Production from the well increased initially from approximately 10 MCFD to about 80 MCFD. The well has declined over the past 8 months to approximately 73 MCFD. The decline curve is attached. The decline rate on the Fruitland Sand - Pictured Cliffs formation has been calculated at 11.0% per year.

The Fruitland Coal has not been completed so there is insufficient data to determine a stabilized flow rate or decline curve.

Thompson proposes to allocate the production from the commingled well according to the following formula:

 $Q_{Ftc} = Q_{Total} - (Q_{PCi} * e^{(-D*t)})$

where:

 Q_{FtC} = Production allocated to the Fruitland Coal

 Q_{Total} = Total measured production from the well

 Q_{PCi} = Last Pictured Cliffs rate prior to commingling

D = Exponential decline rate (0.00917/mo.) = 11.0%/year

t = time since commingling began in months.

Due to the close proximity of the two formations, both zones are expected to have very similar bottom hole pressures (approximately 175 psig from the Pictured Cliffs and the Fruitland Coal) so cross flow will not be a factor. Both zones will produce some amount of water. Neither zone is fluid sensitive and the fluids from the two zones are compatible. A copy of the gas analysis from the Pictured Cliffs is attached.

CO.CD 23 EL PASO NATURAL GAS CUSTOMER ACCOUNTING SERVICES DEPARTMENT VOLUME CALCULATION DIVISION POST OFFICE BOX 1492 EL PASO, TEXAS 79978

CONTACTS: EL PASO FIELD SERVICES (713) 757-5953 EL PASO MAINLINE (915) 496-2595

DATE 11/06/97

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE 96400

MAX D WEBB P O BOX 190 FARMINGTON, NM 87499-0190

METER NUMBER 93012 - STATE #1
OPERATOR 0523 - THOMPSON ENGINEERING & PROD

ANALYSIS DATE 10/21/97 TYPE CODE 2 - ACTUAL SAMPLE DATE 10/21/97 H2S GRAINS 0 EFFECTIVE DATE 11/01/97 LOCATION F - FARM BECK EFFECTIVE FOR 6 MONTHS

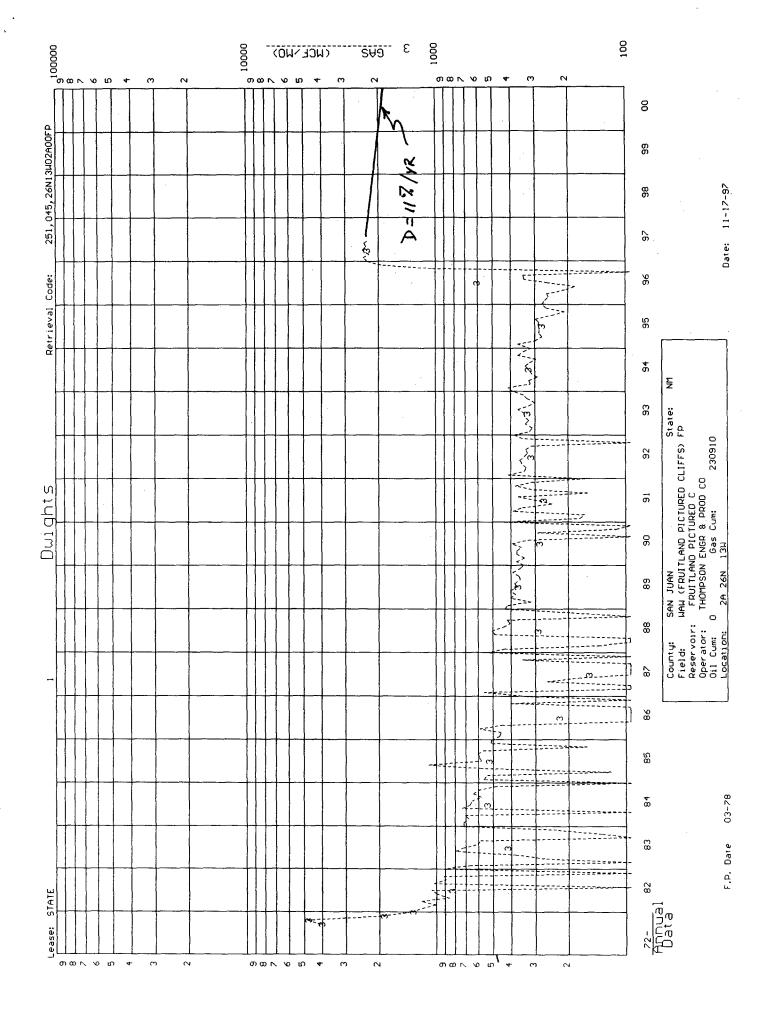
COMPONENTS	NORMALIZED MOL %	GPM
CO2	.81	.000
H2S	.00	.000
N2	9.01	.000
METHANE	81.65	.000
ETHANE	5.40	1.445
PROPANE	1.94	.535
ISO-BUTANE	.34	.111
NORM-BUTANE	.41	.129
ISO-PENTANE	.14	.051
NORM-PENTANE	.09	.033
HEXANE PLUS		092
	100.00	2.396

SPECIFIC GRAVITY .666

MIXTURE HEATING VALUE (BTU @ 14.73 DRY) 1018

RATIO OF SPECIFIC HEATS .000

NO TEST SECURED FOR H2S CONTENT



Well Name: State #1 Field Name: WAW Fruitland Sand - PC

-DECLINE-Calculates Exponential Decline parameters

Qi (/mo) Qt (/mo) Loss Ratio T (mo)	INPUT 2,397.00 2,261.00 0.0000 6.00	CALCULATED 2,397.00 2,261.00 .8897 6.00	 JAN	-
Volume	0	13,970		

GAS WEL	L HISTO	ZDATA, INC. DRY S NORTHWEST	Fil		DATA (#25	A CURREN 51,045,2	NT THRU: 26N13W02	06/97 A00FP)
OPE	RATOR	(#182142)	,		WELL NA	/WE		WELL #
		& PROD CO						1
LOCA	TION	STATE	DIST	COUN	TY (#045	5)	LE	ASE #
2A 26N	13W	NM		SAN JUA			. 0	
AP	 I #			080636)			RESER	
30-045-	2257500	WAW (FRUI	r LAN D PI		LIFFS) E		JITLAND	
TOTAL DEPTH	UPPER PERF	LOWER PERF	GAS GATH	LIQ GATH	GAS GRAV	LIQ GRAV		N-FACTOR
			ELNAT				1.380	
COMP DATE		1ST PROD DATE		LAST PRO	_ D _	STAT	-	STATUS
		7803		9706				ACT
CUM TH	RU LPD MCF	_	S CUM CE DATE					

230910

FPDAT

DWIGHTS ENERGYDATA, INC. File: STATE1.DMP THOMPSON ENGR & PROD CO STATE

RUN DATE: 11/17/97

(#251,045,26N13W02A00FP)

DATA CURRENT THRU: 06/97

*** GAS TEST INFORMATION ***

TEST DATE	CUM TO TEST	WHSIP	ВНР	BHP/Z	- T -	POTENTIAL	WH FLOW	BBLS/DAY WATER	BBLS/DAY COND
780414 791122 810505 830706	8085 103970 137003 159750	235 164 133 114			2 2 2	262 60 74 25	99 51 41 54		

DWIGHTS ENERGYDATA, INC. File: STATE1.DMP THOMPSON ENGR & PROD CO

STATE

RUN DATE: 11/17/97

DATA CURRENT THRU: 06/97 (#251,045,26N13W02A00FP)

*** ANNUAL PRODUCTION HISTORY ***

YEAR	GAS/MCF	COND/BBLS	WATER/BBLS	
1978	49238	0	0	
1979	58197	0	0	
1980	23122	0	. 0	
1981	16175	0	0	
1982	10062	0	0	
1983	5110	0	. 0	
1984	6551	Ó	0	
1985	6411	Ó	0	
1986	2733	0	0	
1987	1895	0	. 0	
1988	3537	0.	0	
1989	4496	0	. 0	
1990	3476	0	0	
1991	3304	0	0	
1992	3842	0	0	
1993	4014	0	. 0	
1994	3951	0	0	
1995	3368	0	0	
1996	7395	0	30	
1997	14033	0	869	

DWIGHTS ENERGYDATA, INC. File: STATE1.DMP RUN DATE: 11/17/97 THOMPSON ENGR & PROD CO

STATE

DATA CURRENT THRU: 06/97

(#251,045,26N13W02A00FP)

*** MONTHLY PRODUCTION HISTORY ***

MONTH	GAS MCF	CUM GAS MCF	COND BBLS	CUM COND BBLS	WATER BBLS	DAYS ON
JAN	411	202574	0	0	0	31
FEB	316	202890	Ö	0	ő	28
MAR	322	203212	0	0	0	31
	291	203503	0	0		30
APR		*			0	
MAY	313	203816	0	0	0	31
JUN	323	204139	0	.0	0	30
JUL	335	204474	0	. 0	0	31
AUG	319	204793	0	0	0	31
SEP	296	205089	0	0	0	30
OCT	367	205456	0	0	0	31
NOV	343	205799	0	0	0	30
DEC	315	206114	0	0	0	31
1994	3951	206114	0	0	. 0	
JAN	367	206481	0	0	0	31
FEB	299	206780	0	0	0	28
MAR	275	207055	0	0	0	31
APR	285	207340	0	0	0	29
MAY	285	207625	0	0	0	29
JUN	287	207912	0	0	0	30
JUL	285	208197	0	0	0	29
AUG	297	208494	0	0	0	28
SEP	243	208737	0	0	0	27
OCT	209	208946	0	0	0	21
NOV	261	209207	0	0	0	29
DEC	275	209482	0	0	0	31
1995	3368	209482	0	0	0	
JAN	265	209747	0	0	0	30
FEB	255	210002	0	0	0	26
MAR	260	210262	0	0	0	28
APR	205	210467	0	0	0	24
MAY	183	210650	0	0	0	21
JUN	258	210908	0	0	. 0	21
JUL	340	211248	0	0	0	31
AUG	344	211592	0	0	0	31
SEP	17	211609	0	0	0	3
OCT	1047	212656	0	0	20	31
NOV	1939	214595	0	0	10	27
DEC	2282	216877	0	0	0	31
1996	7395	216877	0	0	30	
JAN	2397	219274	0	0	0	31
FEB	2239	221513	0	0	0	28
MAR	2418	223931	0	0	527	31
APR	2331	226262	0	0	255	30
MAY	2387	228649	0	0	57	31
NUL	2261	230910	0	0	30	30
1997	14033	230910	0	0	869	

DWIGHTS ENERGYDATA, INC.

File: STATE1.DMP

RUN DATE: 11/17/97
DATA CURRENT THRU: 06/97
(#251,045,26N13W02A00FP)

Lease: STATE

Field: WAW (FRUITLAND PICTURED CLIFFS) FP

Operator: THOMPSON ENGR & PROD CO

Well #: 1

Reservoir: FRUITLAND PICTURED C

Gas cum: 230910

Ope	rator:	THOMPSON E	ENGR & PROD) CO		s cum: 2309	10	
		0 50	100	PRESSU 150	JRE) 200	250	300	350
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Thompson Engineering
State #1
790' FNL & 790' FEL
Sec. 2, T26N, R13W
San Juan County, New Mexico

The following offset Fruitland Sand - Pictured Cliffs and Fruitland Coal Operators have received written notice of the proposed downhole commingling application.

Mr. T. Greg Merrion Merrion Oil and Gas P.O. Box 840 Farmington, NM 87499

Mr. J. K. Edwards J. K. Edwards and Associates 1401 17th Street Suite 1400 Denver, CO 80202

Mr. Al Nicol Pendragon Energy Partners 621 17th Street Suite 750 Denver, CO 80293

Mr. A. M. O'Hare Maralex Resources P.O. Box 338 Ignacio, CO 81137

Mr. Sherwin Artus Whiting Petroleum Corp. 1700 Broadway, Suite 2300 Denver, CO 80290-2301

Mr. Sherman Dugan Dugan Production Corp. P.O. Box 420 Farmington, NM 87499

I certify that copies of the Application for a non-standard Fruitland Coal well has been mailed to the above Operators.

Paul C. Thompson

San Juan County)	
_)	SS
State of New Mexico)	

The following instrument was acknowledged before me this 17th day of November 1997 by Paul C. Thompson.

My Commission Expires:

July 31, 2001

Exhibit "A" Division Order No. DHC-1770 State Well No. 1-Unit A, Section 2, T-26N, R-13W Allocation Method

 $Q_{\text{ftc}} = Q_{\text{total}} - (Q_{\text{PCi}}^{\text{*e(-D*t)}})$

Where:

Q_{ftc} = Production Allocated to the Basin-Fruitland Coal Pool

 Q_{total} = Total measured production from the well

Q_{PCi} = Last WAW Fruitland Sand-Pictured Cliffs rate prior to commingling

D = Exponential decline rate (0.00917/month) = 11.0% /year

t = time since commingling began in months



WALSHI

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892

CERTIFIED- RETURN RECEIPT

November 17, 1997

Mr. T. Greg Merrion Merrion Oil and Gas P.O. Box 840 Farmington, NM 87499

Re: Application for Down Hole Commingling
Thompson Engineering and Production Corp.
State #1
790' FNL, 790' FEL, Section 2, T26N R13W
San Juan County, New Mexico
Basin Fruitland Coal and WAW Fruitland Sand - PC

Dear Mr. Merrion,

Enclosed you will find a copy of the above referred to application that has been submitted to the New Mexico Oil Conservation Division for administrative approval. As an offset operator you are being notified of this application pursuant to NMOCD rules.

If you desire to submit remarks concerning the application, please send them to Mr. William J. LeMay, Director, New Mexico Oil Conservation Division, Santa Fe, New Mexico, within 20 from the receipt of this notice. A copy of any remarks to the undersigned would be appreciated.

Thank you for your consideration in this matter and if you have any questions, please do not hesitate to call upon me.

Sincerely,

Paul C. Thompson, P.E.



WALSHI

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting Lease Management Contract Pumping

7415 East Main Farmington, New Mexico 87402 (505) 327-4892

CERTIFIED- RETURN RECEIPT

November 17, 1997

Mr. J. K. Edwards J. K. Edwards and Associates 1401 17th Street Suite 1400 Denver, CO 80202

Re: Application for Down Hole Commingling
Thompson Engineering and Production Corp.
State #1
790' FNL, 790' FEL, Section 2, T26N R13W
San Juan County, New Mexico
Basin Fruitland Coal and WAW Fruitland Sand - PC

Dear Mr. Edwards,

Enclosed you will find a copy of the above referred to application that has been submitted to the New Mexico Oil Conservation Division for administrative approval. As an offset operator you are being notified of this application pursuant to NMOCD rules.

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Thank you for your consideration in this matter and if you have any questions, please do not hesitate to call upon me.

Sincerely,

Paul C. Thompson, P.E.

Paul C. Thomps -



WALSH

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892

CERTIFIED- RETURN RECEIPT

November 17, 1997

Mr. Al Nicol Pendragon Energy Partners 621 17th Street Suite 750 Denver, CO 80293

Re: Application for Down Hole Commingling
Thompson Engineering and Production Corp.
State: #1
790' FNL, 790' FEL, Section 2, T26N R13W
San Juan County, New Mexico
Basin Fruitland Coal and WAW Fruitland Sand - PC

Dear Mr. Nicol,

Enclosed you will find a copy of the above referred to application that has been submitted to the New Mexico Oil Conservation Division for administrative approval. As an offset operator you are being notified of this application pursuant to NMOCD rules.

If you desire to submit remarks concerning the application, please send them to Mr. William J. LeMay, Director, New Mexico Oil Conservation Division, Santa Fe, New Mexico, within 20 from the receipt of this notice. A copy of any remarks to the undersigned would be appreciated.

Thank you for your consideration in this matter and if you have any questions, please do not hesitate to call upon me.

Sincerely,

Paul C. Thompson, P.E.





ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892

CERTIFIED- RETURN RECEIPT

November 17, 1997

Mr. A. M. O'Hare Maralex Resources P.O. Box 338 Ignacio, CO 81137

Re: Application for Down Hole Commingling
Thompson Engineering and Production Corp.
State #1
790' FNL, 790' FEL, Section 2, T26N R13W
San Juan County, New Mexico
Basin Fruitland Coal and WAW Fruitland Sand - PC

Dear Mr. O'Hare,

Enclosed you will find a copy of the above referred to application that has been submitted to the New Mexico Oil Conservation Division for administrative approval. As an offset operator you are being notified of this application pursuant to NMOCD rules.

If you desire to submit remarks concerning the application, please send them to Mr. William J. LeMay, Director, New Mexico Oil Conservation Division, Santa Fe, New Mexico, within 20 from the receipt of this notice. A copy of any remarks to the undersigned would be appreciated.

Thank you for your consideration in this matter and if you have any questions, please do not hesitate to call upon me.

Sincerely,

Paul C. Thompson, P.E.

Paul C. Thomps -



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ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892

CERTIFIED- RETURN RECEIPT

November 17, 1997

Mr. Sherwin Artus Whiting Petroleum Corp. 1700 Broadway, Suite 2300 Denver, CO 80290-2301

Re: Application for Down Hole Commingling
Thompson Engineering and Production Corp.
State #1
790' FNL, 790' FEL, Section 2, T26N R13W
San Juan County, New Mexico
Basin Fruitland Coal and WAW Fruitland Sand - PC

Dear Mr. Artus,

Enclosed you will find a copy of the above referred to application that has been submitted to the New Mexico Oil Conservation Division for administrative approval. As an offset operator you are being notified of this application pursuant to NMOCD rules.

If you desire to submit remarks concerning the application, please send them to Mr. William J. LeMay, Director, New Mexico Oil Conservation Division, Santa Fe, New Mexico, within 20 from the receipt of this notice. A copy of any remarks to the undersigned would be appreciated.

Thank you for your consideration in this matter and if you have any questions, please do not hesitate to call upon me.

Sincerely,

Paul C. Thompson, P.E.

Paul C. Thompson





ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892

CERTIFIED- RETURN RECEIPT

November 17, 1997

Mr. Sherman Dugan Dugan Production Corp. P.O. Box 420 Farmington, NM 87499

Re: Application for Down Hole Commingling
Thompson Engineering and Production Corp.
State #1
790' FNL, 790' FEL, Section 2, T26N R13W
San Juan County, New Mexico
Basin Fruitland Coal and WAW Fruitland Sand - PC

Dear Mr. Dugan,

Enclosed you will find a copy of the above referred to application that has been submitted to the New Mexico Oil Conservation Division for administrative approval. As an offset operator you are being notified of this application pursuant to NMOCD rules.

If you desire to submit remarks concerning the application, please send them to Mr. William J. LeMay, Director, New Mexico Oil Conservation Division, Santa Fe, New Mexico, within 20 from the receipt of this notice. A copy of any remarks to the undersigned would be appreciated.

Thank you for your consideration in this matter and if you have any questions, please do not hesitate to call upon me.

Sincerely,

Paul C. Thompson, P.E.

Paul C. Thomps -

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dugan production corp.

November 21, 1997

Mr. William J. LeMay New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088

RE: Application for Downhole Commingling

Thompson Engineering and Production Corp.

State # 1 Well

Section 2-T26N-R13W

San Juan County, New Mexico

Basin Fruitland Coal and WAW Fruitland Sand-PC

Dear Mr. LeMay:

This office is in receipt of the above application filed by Thompson Engineering and Production Corp. Dugan Production Corp. has been notified as an offset operator. Please be advised that Dugan Production Corp. has no objections to this proposal and recommends its approval.

Sincerely,

David M. Poage

Land Manager

xc. Paul Thompson

7415 East Main

Farmington, NM 87402