



2006 AUG 10 PM 3 33

August 10, 2006

VIA HAND-DELIVERY

Mr. Michael Stogner
Engineer
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
(505) 476-3440 FAX

Re: *Administrative application (Division Reference No. pTDS0-617438230) on behalf of Petrohawk Operating Company for an infill gas well and simultaneous dedication of State "A" A/C 1 Well No. 86, 1980 feet FNL and 1980 feet FWL, S10-T23S-R36E, Jalmat Gas Pool, Lea County, New Mexico*

Dear Mr. Stogner:

I am in receipt of your letter dated July 31, 2006, denying Petrohawk Operating Company's application for an infill gas well and simultaneous dedication of the State "A" A/C 1 Well No. 86, located 1980 feet from the North and West lines (Unit F), Section 10, Township 23 South, Range 36 East, NMPM, Lea County, New Mexico. Petrohawk proposes to re-enter and re-complete Well No. 86 as a Jalmat gas well. Your reason for denying the application was because it violated Rule 3(D) of the Jalmat special pool rules which allows only one well per quarter-quarter section.

Petrohawk currently operates the State "A" A/C 1 Well No. 37 located in Unit F, 1650 feet from the North and West lines of Section 10. As noted in the application, Petrohawk will shut in Well No. 37 upon the completion of the Well No. 86. Well No. 37 is a poor producer and Petrohawk believes that with modern re-completion and fracing techniques, it can produce more reserves from Well No. 86. As Petrohawk will only produce one well from the quarter-quarter section, I believe Petrohawk's application does not violate the well spacing provision in the Jalmat rules. Therefore, I am re-submitting this application for your consideration. If I am mistaken, please let me know.

Holland & Hart LLP

Phone [505] 988-4421 Fax [505] 983-6043 www.hollandhart.com

110 North Guadalupe Suite 1 Santa Fe, NM 87501 **Mailing Address** P.O. Box 2208 Santa Fe, NM 87504-2208

Aspen Billings Boise Boulder Cheyenne Colorado Springs Denver Denver Tech Center Jackson Hole Salt Lake City Santa Fe Washington, D.C. ♻

August 10, 2006

Page 2

HOLLAND & HART^{L.P.}



If you would like to discuss this matter further, please call me at 505-988-4421.
Thank you for your time and attention to this matter.

Sincerely,

Ocean Munds-Dry

Ocean Munds-Dry

ATTORNEY FOR PETROHAWK OPERATING CO.



NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

July 31, 2006

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

Petrohawk Operating Company
c/o **Holland & Hart LLP**
P. O. Box 2208
Santa Fe, New Mexico 87504-2208

RECEIVED

AUG 03 2006

Attention: **Ms. Ocean Munds-Dry**

HOLLAND & HART LLP

Re: *Administrative application (Division reference No. pTDS0-617438230) on behalf of Petrohawk Operating Company ("Petrohawk") filed with the Division on June 22, 2006 for an exception to the well density requirements, Rule 3 (C) of the "Special Pool Rules for the Jalmat Gas Pool (79240)," as promulgated by Division Order No. R-8170-P, issued in Case No. 12563 on December 14, 2001, within an existing non-standard 520-acre Jalmat gas spacing unit comprising the S/2 NE/4 and N/2 SE/4 of Section 9 and the W/2 of Section 10, both in Township 23 South, Range 36 East, NMPM, Lea County, New Mexico [see Ordering Paragraph No. (8) of Exhibit "A" in Division Order No. R-9073, issued in Case No. 9775 on December 14, 1989.]*

Dear Ms. Munds-Dry:

Petrohawk's proposed re-entry into and re-completion of the State "A" A/C-1 Well No. 86 (API No. 30-025-09296) as a Jalmat gas well in Unit "F" of Section 10 would be in violation of Rule 3 (D) of the Jalmat special pool rules where Petrohawk all ready operates its State "A" A/C-1 Well No. 37 (API No. 30-025-09290) as a Jalmat gas well within the same quarter-quarter section.

Your application is therefore **denied** and is being returned to you.

Sincerely,

Michael E. Stogner
Engineer

MES/ms

cc: New Mexico Oil Conservation Division – Hobbs
New Mexico State Land Office – Santa Fe
File: SD-01-09

Stogner, Michael, EMNRD

From: Ocean Munds-Dry [Omundsdry@hollandhart.com]
To: Stogner, Michael, EMNRD
Cc:
Subject: Petrohawk application for Simultaneous Dedication
Attachments:

Sent: Wed 7/26/2006 3:23 PM

Mr. Stogner:

We filed an application on behalf of Petrohawk Operating on June 21, 2006 for administrative approval of infill gas wells and simultaneous dedication in S8-T22S-R36E (in addition to 3 other similar applications). Petrohawk has informed me that they have a rig available on August 1 which they would like to utilize. Would you please let me know the status of this application and if you have any questions or concerns?

As always, I appreciate your time and attention to this matter.

Thank you,
Ocean

Ocean Munds-Dry
Holland & Hart LLP
110 N. Guadalupe Suite 1
Santa Fe, NM 87501
Phone (505) 988-4421
Fax (866) 851-8340
E-mail: Omundsdry@hollandhart.com

HOLLAND & HART



CONFIDENTIALITY NOTICE: This message is confidential and may be privileged. If you believe that this email has been sent to you in error, please reply to the sender that you received the message in error; then please delete this e-mail. Thank you.

Petrohawk

DATE IN 6/22/06	SUSPENSE	ENGINEER MIKE STOGNER	LOGGED IN 6/23/06	TYPE SD	APP NO. pTDS0617438230
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ABOVE THIS LINE FOR DMSION USE ONLY

2006 JUN 22 PM 4 17

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [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
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Ocean Muds-Dry Ocean Muds-Dry Attorney 6-22-06
 Print or Type Name Signature Title Date
 omudsdry@hollandhart.com
 e-mail Address



2006 JUN 22 11:17 AM

June 22, 2006

HAND-DELIVERED

Mark E. Fesmire, P.E.
Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

30-025-09296

Re: Application of Petrohawk Operating Company for administrative approval of an infill gas well and simultaneous dedication of State "A" A/C 1 Well No. 86, 1980' FNL and 1980' FWL, S10-T23S-R36E, Jalmat Gas Pool, Lea County, New Mexico.

Dear Mr. Fesmire:

Pursuant to the provisions of Rule 4(B) of the Special Pool Rules for the Jalmat Gas Pool, as promulgated by Division Order No. R-8170-P dated December 14, 2001, Petrohawk Operating Company ("Petrohawk") hereby seeks an administrative exception to the gas well density provisions of Rule 3(C) and authorization to simultaneously dedicate said wells to the non-standard 520-acre spacing and proration unit originally approved by Order No. R-9073, dated December 14, 1989, as amended by Order R-9073-B, dated December 14, 1989.

Petrohawk seeks approval of the following well in Section 10, Township 23 South, Range 36 East, NMPM, Lea County, New Mexico:

The State "A" A/C 1 Well No. 86 to be re-entered and re-completed at a standard location 1980 feet from the North line and 1980 feet from the West line (Unit F).



The proposed wells would be drilled within an existing 520-acre non-standard gas spacing unit comprised of the S/2 NE/4, N/2 SE/4 and SE/4 SE/4 of Section 9 and the W/2 of Section 10. Therefore, Petrohawk also seeks approval to simultaneously dedicate these wells to this spacing unit.

Administrative Order SD-01-09, dated December 19, 2001, authorized the simultaneous dedication of the following ten wells to the non-standard 520-acre gas spacing and proration unit for the Jalmat Gas Pool:

State "A" A/C 1 Well No. 37 (API No. 30-025-09290) located 1650 feet from the North line and West lines (Unit F) of Section 10;

State "A" A/C 1 Well No. 38 (API No. 30-025-09291) located 990 feet from the South and West lines (Unit M) of Section;

State "A" A/C 1 Well No. 49 (API No. 30-025-09292) located at an unorthodox location 660 feet from the North and West lines (Unit D) of Section 10;

State "A" A/C 1 Well No. 55 (API No. 30-025-09293) located 1980 feet from the North line and 660 feet from the West line (Unit E) of Section 10;

State "A" A/C 1 Well No. 81 (API No. 30-025-09295) located at an unorthodox location 660 feet from the North line and 1980 feet from the West line (Unit C) of Section 9;

State "A" A/C 1 Well No. 88 (API No. 30-025-09297) located at an unorthodox location 1980 feet from the South and West lines (Unit K) of Section 10;

State "A" A/C 1 Well No. 89 (API No. 30-025-09298) located at an unorthodox location 660 feet from the South line and 1980 feet from the West line (Unit N);

State "A" A/C 1 Well No. 130 (API No. 30-025-35552) located at an unorthodox location 660 feet from the South and East lines (Unit P) of Section 9;

State "A" A/C 1 Well No. 131 (API No. 30-025-35556) located at an unorthodox location 1980 feet from the South line and 660 feet from the East line (Unit I) of Section 9; and

State "A" A/C 1 Well No. 56 (API No. 30-025-09294) at a location 1980 feet from the South line and 660 feet from the West line (Unit L) of Section 10.

The proposed wells are necessary to facilitate the recovery of Jalmat gas reserves. Based on the geological discontinuity in the Jalmat the tighter spacing is anticipated to



recover reserves, which cannot be recovered from existing wells. The wells will be completed with modern completion and fracture stimulation techniques which will ensure optimal recovery from the discontinuous Yates/Seven Rivers sands. **Exhibit 1** is a Base Map showing recent Jalmat activity and the proposed well location in Section 10. **Exhibit 2** is a Top of Structure Map with Petrohawk's acreage position in Section 10 outlined.

Exhibits 3 through 7 are cross-sections showing the Yates and Seven Rivers sands vary substantially from well to well in thickness and reservoir quality. Given the variability of the sands, net pay isopach maps have not proven to be useful and are not included. Detailed correlations with newer generation Density-Neutron logs in the Yates and Seven Rivers interval reveal the sands "come and go" and are not blanket reservoirs. Sands that have not adequately produced in the area are expected in each new well bore.

Jalmat producers have been down-spaced on the Petrohawk acreage from 160 acres to 80 acres to 40-acre spacing in several phases since 1989. New gas production and reserves have always been encountered from these efforts, as shown on **Exhibit 8**. Petrohawk concludes that this area of Jalmat Field has such discontinuous sand reservoirs that infill drilling on 40-acre spacing is required to adequately drain the existing reserves.

The work of Raptor Resources, Inc. ("Raptor"), Mission Resources Corporation ("Mission") and Petrohawk was reviewed from April of 1999 through 2005. All of the new drills and re-completions (32) in Township 22 South, Range 36 East were studied to develop a type curve for the area. The monthly production data for each of these completions was normalized. The data was then averaged to produce a normalized production curve as shown on **Exhibit 9**. Detailed information for all the Mission/Petrohawk completion since Mission took over as operator in March 2004 are listed on **Exhibit 10**. The first month average initial rate for these projects is 149 mcf. Anticipated reserves per location were determined by using the average initial rate with the decline scenario developed from the type curve. The result of this analysis yields an Estimated Ultimate Recovery of 704 MMCFG.

Economic analysis was performed based on the average initial rates realized (See Exhibit 10) in the Mission/Petrohawk wells completed and using a normalized type curve (See Exhibit 9) designed by studying all completions from 1999 through 2005 on the Petrohawk acreage for the decline rate and hyperbolic exponent. **Exhibit 12** lists the details of the input and the results of the economics. The gas is extremely rich with an NGL yield of 136 bbls/mcf. The processing plant takes 13% of the residue gas and NGL's. Gas shrinkage was based on plant statements. The gas price used in the analysis was \$6.00/mcf flat. No condensate was included in the run. The NGL price was 71% of the oil price (\$60/stb) and thus was \$42.60/bbl flat. This percentage was determined by comparing the actual prices received to NYMEX oil prices. The operating cost is the

HOLLAND & HART^{LLP}



average per producing well cost in the field. Our operations group provided the CWC for both new drills and re-completes. The results of the analysis show a EUR of 704 MMCF. The new drill wells have an NPV @ 10% - 821 M\$, Rate of Return = 36%, payout in 40 months, and a return on investment ratio of 6.1. The re-completes have an NPV @ 10% = 1,039 M\$, Rate of Return = 65%, payout in 26 months, and a return on investment ratio of 9.3. In summary, either drilling or re-completing wells on 40-acres with the discontinuous nature of the sands is extremely economic.

Exhibit 11 is the completion data and estimated EUR for the 40-acre locations around the proposed well. In Unit Letter F of Section 10, the surrounding 40-acre wells have produced 4,755 MMCF, and will make another 60 MMCF. Three wells (Nos. 55, 37 and 56) were either not frac'd or treated with small fracs. Well No. 86 has produced out of the Queen formation, is currently T&A'd and will be re-completed to the Yates-Seven Rivers. Well No. 37 is a Yates-only natural completion that is currently only making 1mcf/d. This well be shut in with the completion of the Well No. 86.

Many of the older wells had only small or no frac treatment and were not perforated or treated in a way to adequately contact every gas-bearing sand. In many cases, the Seven Rivers gas zones were not perforated at all. **Exhibit 11** shows that seven of the offsets in Section 10 had fracture treatments exceeding 100,000 # of sand – all but one completed after 1999. The older wells, if they were frac'd, had fracs of only 20,000 to 60,000 # of sand. Petrohawk is using a combination of limited entry perforating and pumping much larger frac jobs (300K#) to ensure that the entire Jalmat interval is stimulated. The designed fracture half length is approximately 300 feet. Careful engineering of the frac job can then assure all potential sands are effectively drained.

Approval of this application will result in the efficient recovery of hydrocarbons, prevent waste and will not violate correlative rights.

Exhibit 13 lists the parties affected by this application as defined by Rule 1210. **Exhibit 14** is a map displaying the offset operators around the spacing unit in Section 22. **Exhibit 15** is an affidavit confirming that notice of this application has been provided in accordance with the provisions of Rule 4(D) and Rule 1210(B) by providing a copy of this application, including all attachments, to the affected parties by certified mail-return receipt requested advising them that if they have an objection to this application it must be filed in writing with the Division's Santa Fe office within twenty (20) days after the filing of this application and proof of notice with the Division.

Exhibit 16 is OCD Form C-102 depicting the proposed surface location of the referenced well.

Also enclosed is a proposed administrative order of the Division.

HOLLAND & HART  LLP

Sincerely,

Ocean Munds-Dry

Ocean Munds-Dry
Attorney for Petrohawk Operating Company

Enclosures

Attention: Ms. Nancy Gatti

Administrative Order - _____

Dear Ms. Gatti:

Reference is made to your application dated June 22, 2006 for an infill gas well and simultaneous dedication for its proposed State "A" A/C 1 Well No. 86, 1980' FNL and 1980' FWL, S10-T23S-R36E, Jalmat Gas Pool, Lea County, New Mexico.

The proposed wells will be simultaneously dedicated to an existing 520-acre gas spacing unit comprising Section 10 which is currently dedicated to the State "A" A/C 1 Well No. 37 (Unit F) of Section 10; State "A" A/C 1 Well No. 38 (Unit M) of Section 10; State "A" A/C 1 Well No. 49 of Section 10; State "A" A/C 1 Well No. 55 (Unit E) of Section 10; State "A" A/C 1 Well No. 81 (Unit C) of Section 9; State "A" A/C 1 Well No. 88 (Unit K) of Section 10; State "A" A/C 1 Well No. 89 (Unit N) of Section 10; State "A" A/C 1 Well No. 130 (Unit P) of Section 9; State "A" A/C 1 Well No. 131 (Unit I) of Section 9; and State "A" A/C 1 Well No. 56 (Unit L) of Section 10.

This application has been duly filed under the provisions of the "Special Pool Rules for the Jalmat Gas Pool," as promulgated by Division Order No. R-8170-P, issued in Case No. 12563 on December 14, 2001.

By authority granted me under the provisions of Rules 4(A), (B), and (D) of the special rules governing the Jalmat Gas Pool, the following described wells within this 520-acre spacing unit is hereby approved:

The State "A" A/C 1 Well No. 86 to be re-entered and re-completed at a standard location 1980 feet from the North line and 1980 feet from the West line (Unit F).

Further, Petrohawk is hereby authorized to simultaneously dedicate Jalmat gas production from the above-described wells.

Sincerely,

Mark E. Fesmire, P.E.
Director

cc: Oil Conservation Division - Hobbs/Artesia

June 22, 2006

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

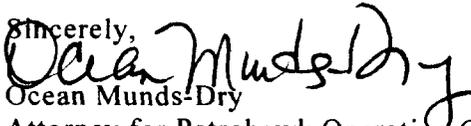
Re: Application of Petrohawk Operating Co. for administrative approval of infill gas wells and simultaneous dedication of State "A" A/C 1 Well No. 86, 1980' FNL and 1980' FWL, S10-T23S-R36E, Jalmat Gas Pool, Lea County, New Mexico.

Dear Ladies and Gentlemen:

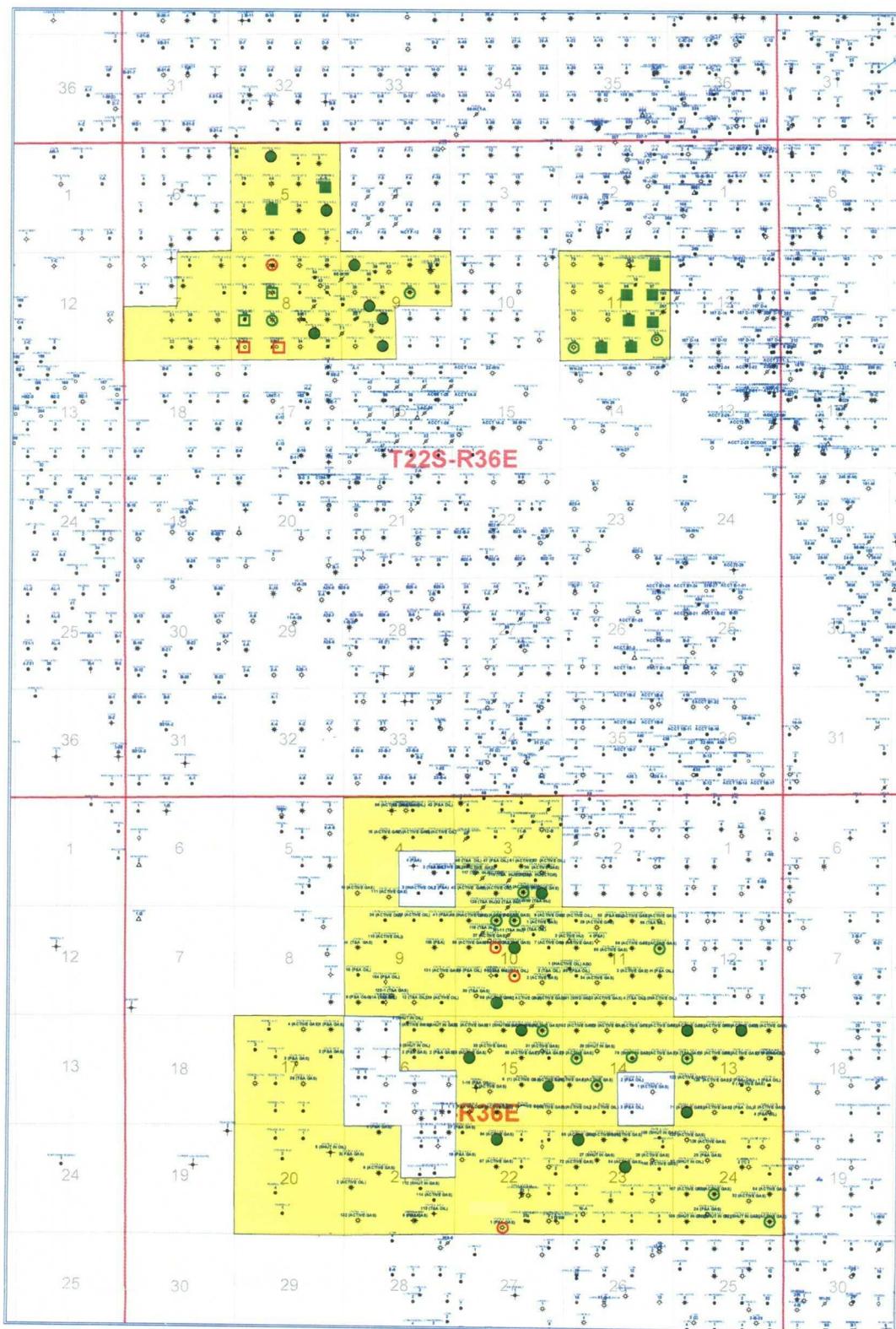
Enclosed is a copy of the above-referenced application which was filed with the New Mexico Oil Conservation Division on this date by Petrohawk Operating Company for administrative approval of an infill gas well and simultaneous dedication for its proposed State "A" A/C 1 Well No. 86, 1980' FNL and 1980' FWL, S10-T23S-R36E, Jalmat Gas Pool, Lea County, New Mexico.

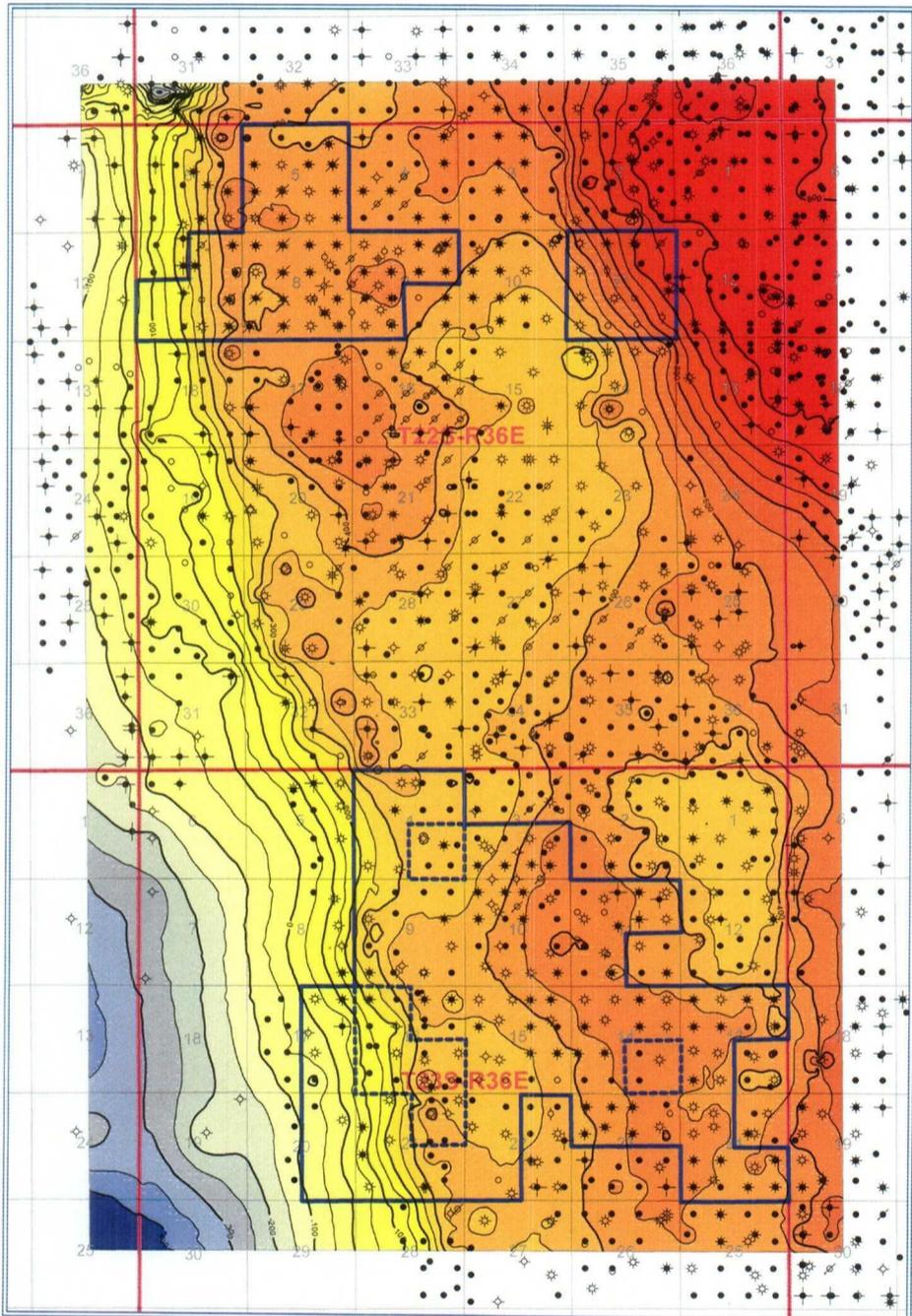
Petrohawk seeks to dedicate this well to an existing 520-acre gas spacing unit comprising Section 9 and 10 which is currently dedicated to the State "A" A/C 1 Well No. 37 (Unit F) of Section 10; State "A" A/C 1 Well No. 38 (Unit M) of Section 10; State "A" A/C 1 Well No. 49 of Section 10; State "A" A/C 1 Well No. 55 (Unit E) of Section 10; State "A" A/C 1 Well No. 81 (Unit C) of Section 9; State "A" A/C 1 Well No. 88 (Unit K) of Section 10; State "A" A/C 1 Well No. 89 (Unit N) of Section 10; State "A" A/C 1 Well No. 130 (Unit P) of Section 9; State "A" A/C 1 Well No. 131 (Unit I) of Section 9; and State "A" A/C 1 Well No. 56 (Unit L) of Section 10.

As an owner of an interest that may be affected by these proposed wells, you may object to this application. Objections must be filed in writing within twenty days from this date at the Division's Santa Fe office that is located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. If no objection is received within this twenty-day period, this application may be approved.

Sincerely,

Ocean Munds-Dry
Attorney for Petrohawk Operating Co.

Enclosures





PETROHAWK ENERGY CORPORATION
 LEA JALMAT AREA
 TOP YATES DEPTH STRUCTURE MAP
 LEA COUNTY, NEW MEXICO

CONTOURS
 100 FT = 1" (200) -
 YATES GRID
 Contour Interval = 10

WELL SYMBOLS

- Location Only
- Oil Well
- ⊕ Gas Well
- ⊕ Oil & Gas Well
- Dry Hole
- ⊕ Injection Well
- Suspended Well
- △ Service Well
- ⊕ Plugged and Abandoned
- ⊕ Shut In Oil and Gas
- ⊕ Plugged & Abandoned Oil Well
- ⊕ Plugged & Abandoned Gas Well
- ⊕ Plugged And Abandoned Oil and Gas Well
- ⊕ Drilled Water-Input Well
- ⊕ Shut-in Well
- Temporarily Abandoned
- ⊕ Abandoned Water Injector
- ⊕ Abandoned Oil Well
- ⊕ Abandoned GAS Well

REMARKS
 TOPS FROM GDS DATA BASE

302592780000 STATE A AC-1
 PETROHAWK ENERGY CORP
 100
 17235 R39E S9
 1980 FNL 990 FWL
 ELEV DF : 3.474
 TD : 3.760

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 PETROHAWK ENERGY CORP
 56
 17235 R39E S10
 1980 FNL 660 FWL
 ELEV NB : 3.485
 TD : 3.805

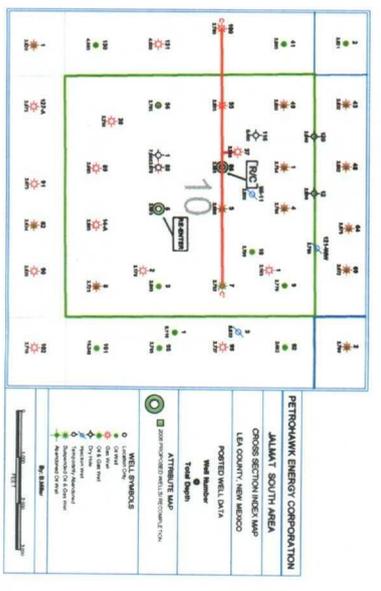
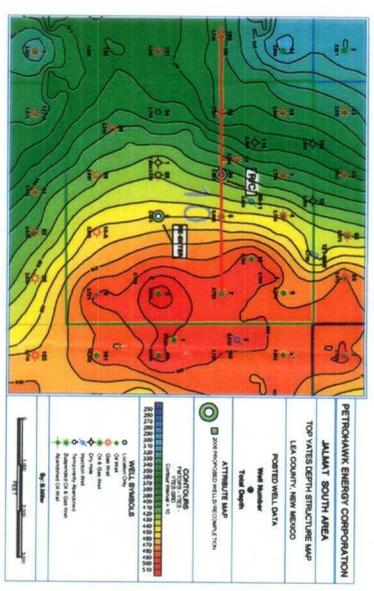
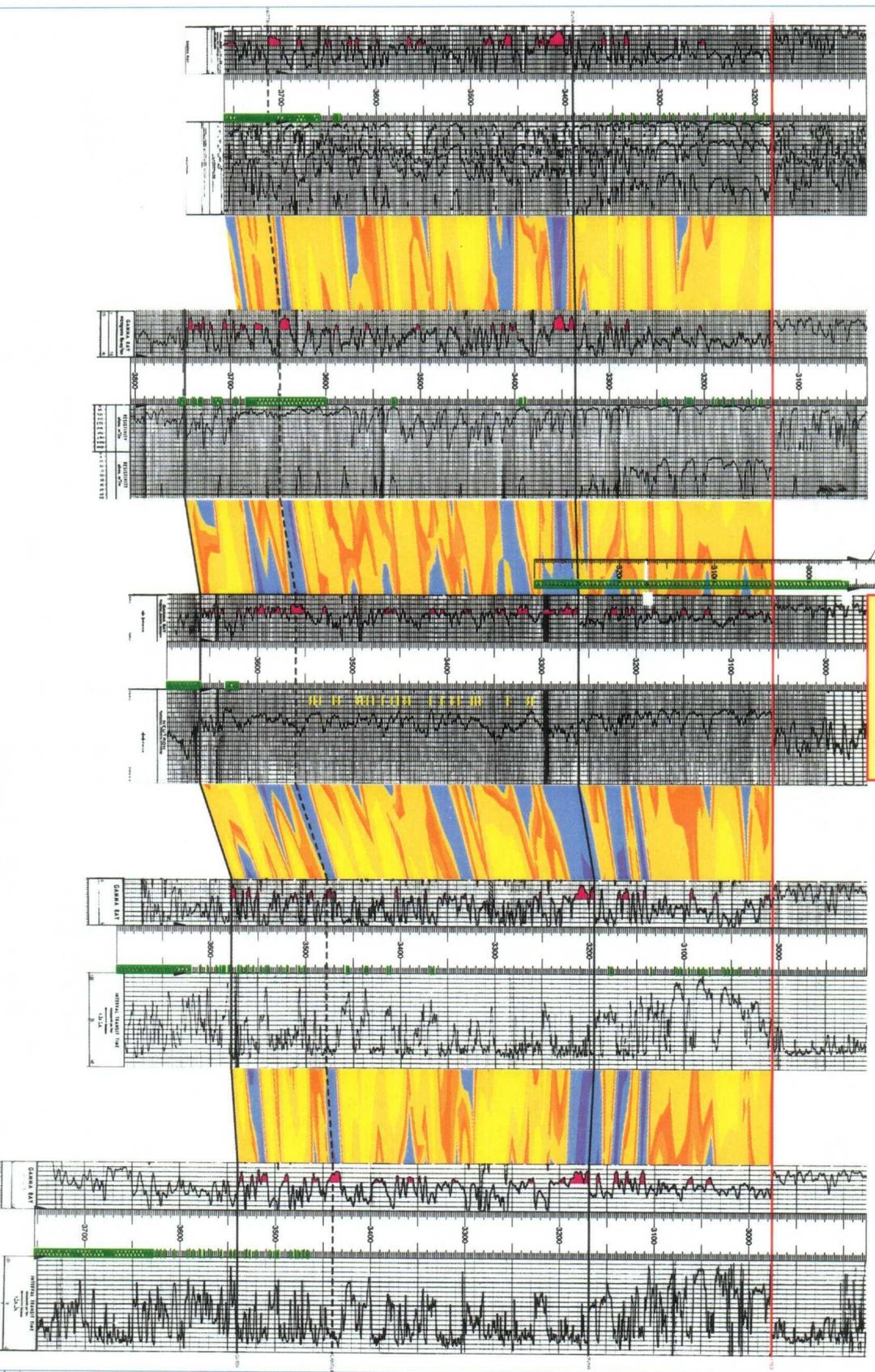
302592960000 STATE A AC-1
 PETROHAWK ENERGY CORP
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 17235 R39E S10
 1980 FNL 1980 FWL
 ELEV DF : 3.470
 TD : 3.695

302592930000 STATE A AC-3
 PETROHAWK ENERGY CORP
 5
 17235 R39E S10
 1980 FNL 2310 FWL
 ELEV DF : 3.471
 ELEV GR : 3.461
 TD : 3.698

302592930000 STATE A AC-3
 PETROHAWK ENERGY CORP
 7
 17235 R39E S10
 1980 FNL 660 FWL
 ELEV NB : 3.479
 TD : 3.753

PROJECTED TO A SECTION
 302592990000 STATE A AC-1
 PETROHAWK ENERGY CORP
 57
 17235 R39E S10
 990 FNL 990 FWL
 ELEV NB : 3.494
 TD : 3.290

RIC TO JALMAT FROM QUEEN



PETROHAWK ENERGY CORP
 LEA, ALAMATI SOUTH AREA
 3700 N. UNIVERSITY BLVD.
 SUITE 200
 ALAMATI, NEW MEXICO 88002
 TEL: 505.833.1000
 FAX: 505.833.1001
 WWW.PETROHAWK.COM

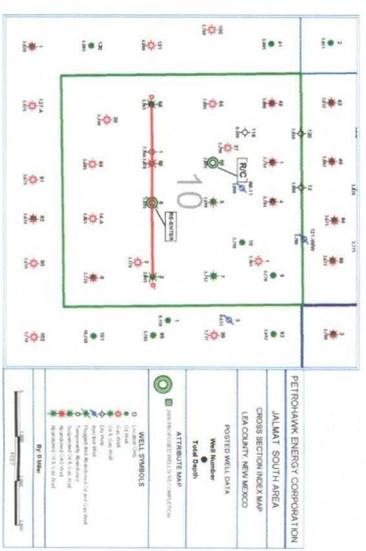
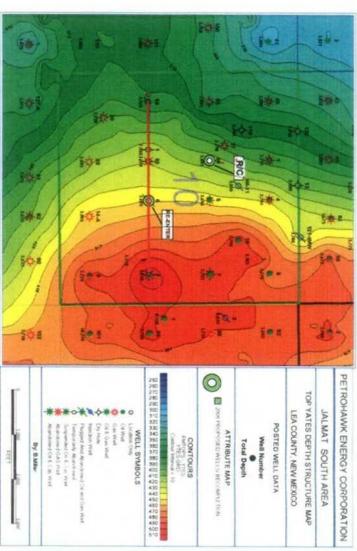
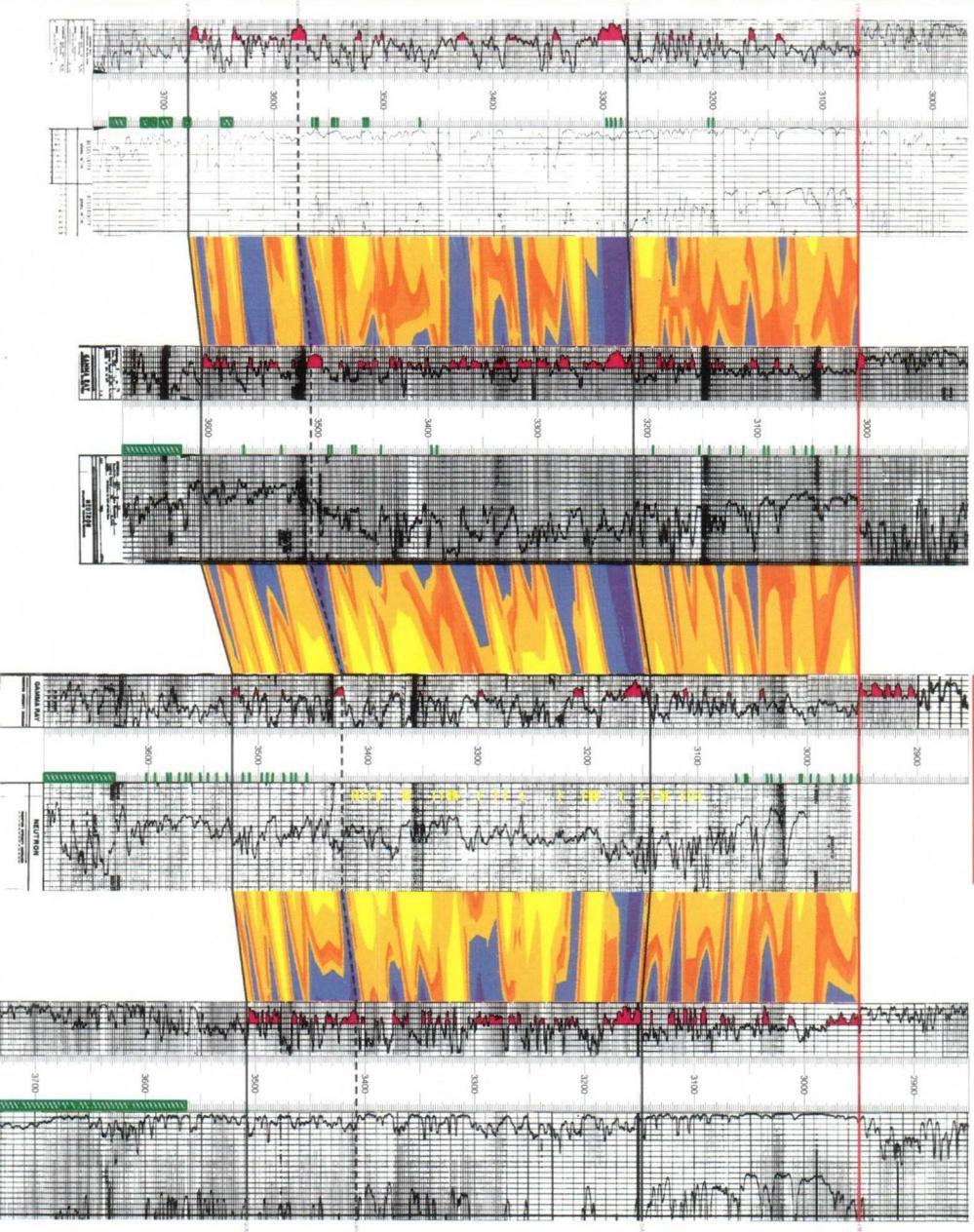
30025929240000
STATE 46
A.C.-1
PETROHAWK ENERGY CORP
1235 R36E S10
1980 FSL 690 FWL
ELEV. KB : 3.449
TD : 3.765

30025929270000
STATE 48
A.C.-1
PETROHAWK ENERGY CORP
1235 R36E S10
1980 FSL 1980 FWL
ELEV. DF : 3.452
TD : 3.678

30025929280000
STATE 6
A.C.-3
PETROHAWK ENERGY CORP
1235 R36E S10
1980 FSL 2310 FEL
ELEV. DF : 3.446
TD : 3.695

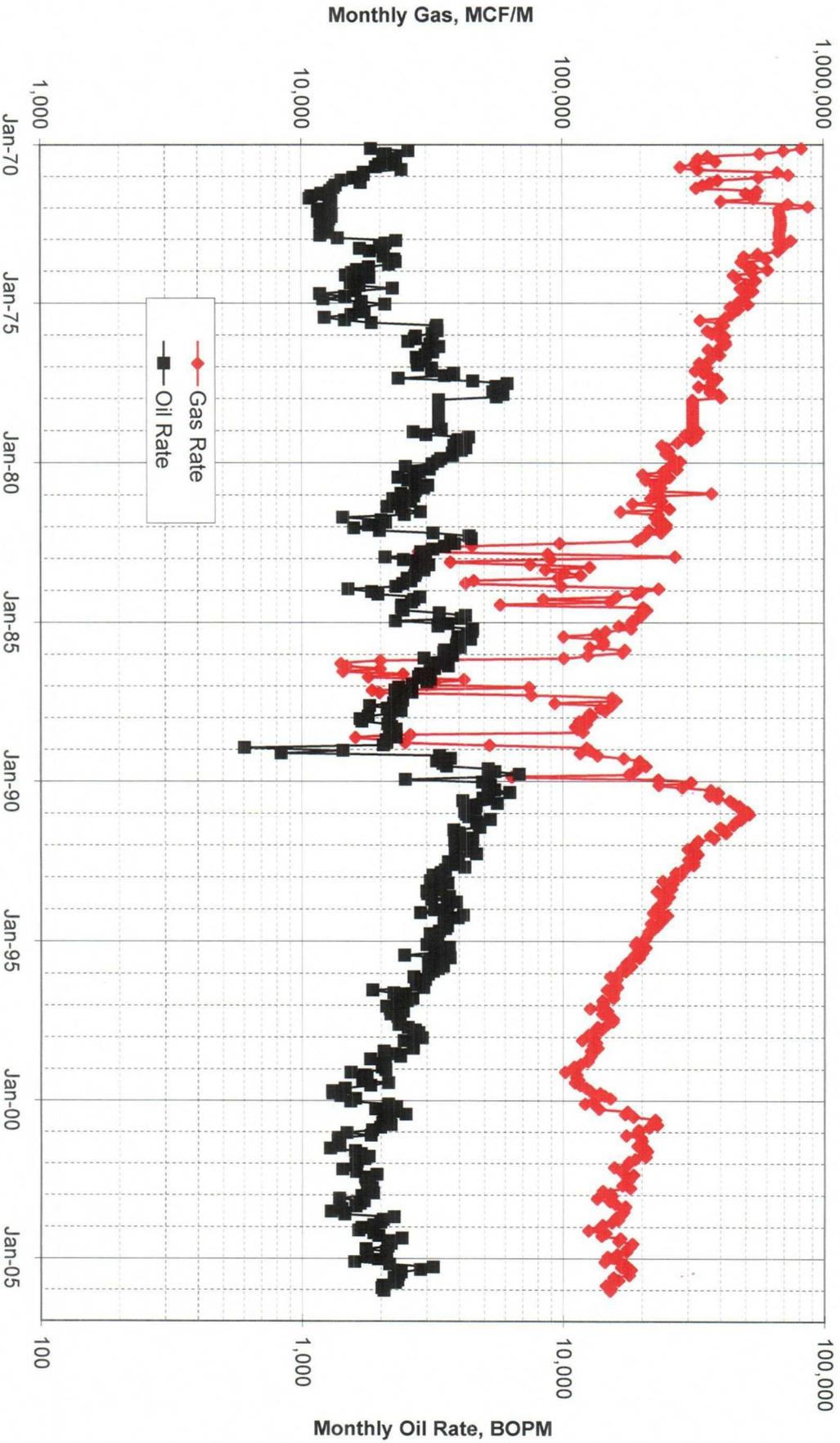
300259293010000
STATE 3
A.C.-3
PETROHAWK ENERGY CORP
1235 R36E S10
1980 FSL 690 FEL
ELEV. KB : 3.466
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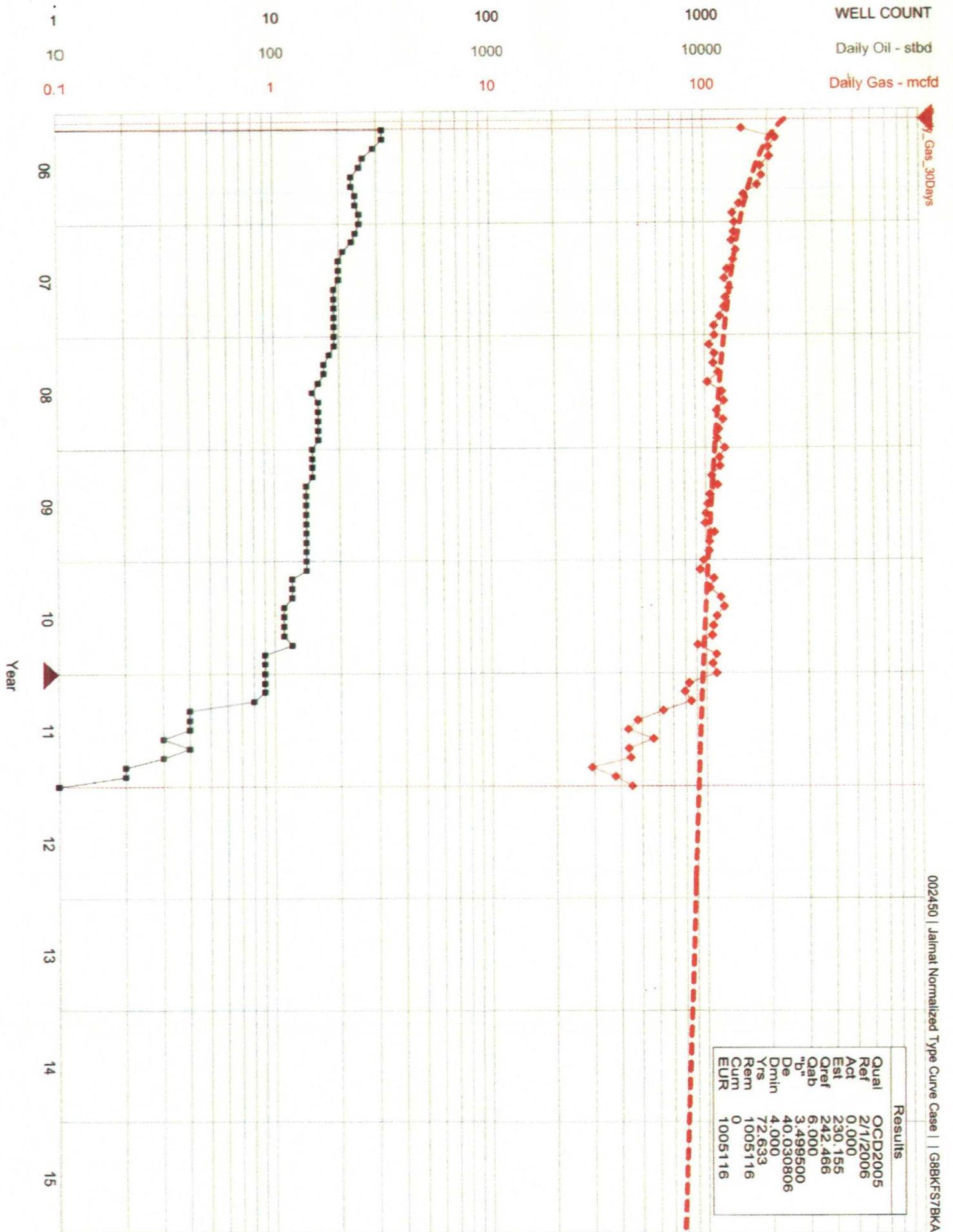
RE-ENTER



PETROHAWK ENERGY CORP
LEA JALUATI SOUTH AREA
STATISTICAL CROSS SECTION D
LEA COUNTY, ARIZONA
WELL NUMBER
WELL DEPTH
WELL TYPE
WELL STATUS
WELL ID

Petrohawk Leases
Jalmat Field
Lea County, New Mexico





002450 | Jalmat Normalized Type Curve Case | G8BKFS7BKA

EXHIBIT 9

Jalmat Field - New Compls since Mission / Petrohawk became operator in 3/2004

Lease Name	Well	Location	API	Type	Oil or Gas	Field Name	Status	First Prod Date	Prod Zone Name	8/8ths Initial Rate		
										Oil (stbd)	Gas (mcf/d)	Wtr (stbd)
STATE AAC 1	57	15I 23S 36E	30-025-10720	Add pay & Frac	Gas	JALMAT	Producing	2005/03	TANSILL-YATES-SEVEN RIVERS	0	34	2
STATE AAC 1	59	15E 23S 36E	30-025-10725	Add pay & Frac	Gas	JALMAT	Producing	2005/03	TANSILL-YATES-SEVEN RIVERS	0	81	0
STATE AAC 1	65	23D 23S 36E	30-025-09394	Add pay & Frac	Gas	JALMAT	Producing	2005/02	TANSILL-YATES-SEVEN RIVERS	0	39	2
STATE AAC 1	66	13D 23S 36E	30-025-09346	Add pay & Frac	Gas	JALMAT	Producing	2005/04	TANSILL-YATES-SEVEN RIVERS	0	172	6
STATE AAC 1	69	3P 23S 36E	30-025-09229	Add pay & Frac	Gas	JALMAT	Producing	2005/03	TANSILL-YATES-SEVEN RIVERS	0	94	0
STATE AAC 1	71	13M 23S 36E	30-025-09347	Add pay & Frac	Gas	JALMAT	Producing	2005/01	TANSILL-YATES-SEVEN RIVERS	0	158	0
STATE AAC 1	82	15B 23S 36E	30-025-10723	Add pay & Frac	Gas	JALMAT	Producing	2005/01	TANSILL-YATES-SEVEN RIVERS	0	205	1
STATE AAC 1	84	23G 23S 36E	30-025-09397	Add pay & Frac	Gas	JALMAT	Producing	2005/04	TANSILL-YATES-SEVEN RIVERS	0	305	0
STATE AAC 1	89	10N 23S 36E	30-025-09298	Add pay & Frac	Gas	JALMAT	Producing	2005/03	TANSILL-YATES-SEVEN RIVERS	0	176	0
STATE AAC 1	94	22C 23S 36E	30-025-08849	Add pay & Frac	Gas	JALMAT	Shut In	2005/03	TANSILL-YATES-SEVEN RIVERS	0	8	35
STATE AAC 2	1	9N 22S 36E	30-025-08849	Add pay & Frac	Gas	JALMAT	Producing	2005/03	TANSILL-YATES-SEVEN RIVERS	1	132	36
STATE AAC 2	28	5I 22S 36E	30-025-08792	Add pay & Frac	Oil	JALMAT	Producing	2004/06	TANSILL-YATES-SEVEN RIVERS	1	68	1
STATE AAC 2	29	9D 22S 36E	30-025-08854	Add pay & Frac	Gas	JALMAT	Producing	2005/05	TANSILL-YATES-SEVEN RIVERS	0	324	0
STATE AAC 2	33	5O 22S 36E	30-025-08793	Add pay & Frac	Gas	JALMAT	Producing	2004/05	TANSILL-YATES-SEVEN RIVERS	0	162	0
STATE AAC 2	38	9K 22S 36E	30-025-08847	Add pay & Frac	Gas	JALMAT	Producing	2004/07	TANSILL-YATES-SEVEN RIVERS	1	266	6
STATE AAC 2	47	5C 22S 36E	30-025-08798	Add pay & Frac	Oil	JALMAT	Producing	2005/04	TANSILL-YATES-SEVEN RIVERS	0	119	0
STATE AAC 2	67	9K 22S 36E	30-025-28276	Add pay & Frac	Gas	JALMAT	Producing	2005/03	TANSILL-YATES-SEVEN RIVERS	28	137	0
STATE AAC 2	70	8P 22S 36E	30-025-28279	Add pay & Frac	Gas	JALMAT	Producing	2004/08	TANSILL-YATES-SEVEN RIVERS	0	70	0
STATE AAC 2	81	5K 22S 36E	30-025-35868	New Drill	Gas	JALMAT	Producing	2004/04	TANSILL-YATES-SEVEN RIVERS	0	223	85
STATE AAC 2	82	11J 22S 36E	30-025-36936	New Drill	Gas	JALMAT	Producing	2005/05	TANSILL-YATES-SEVEN RIVERS	2	247	4
STATE AAC 2	83	11N 22S 36E	30-025-36910	New Drill	Gas	JALMAT	Producing	2005/05	TANSILL-YATES-SEVEN RIVERS	0	136	0
STATE AAC 2	84	11O 22S 36E	30-025-36935	New Drill	Gas	JALMAT	Producing	2005/05	TANSILL-YATES-SEVEN RIVERS	0	70	0
STATE AAC 2	85	11A 22S 36E	30-025-37563	New Drill	Gas	JALMAT	WO Compl	2005/04	TANSILL-YATES-SEVEN RIVERS	0	100	0
STATE AAC 2	86	11G 22S 36E	30-025-37564	New Drill	Gas	JALMAT	Producing	2006/04	TANSILL-YATES-SEVEN RIVERS	0	243	0
STATE AAC 2	88	11H 22S 36E	30-025-37565	New Drill	Gas	JALMAT	WO Compl	2006/05	TANSILL-YATES-SEVEN RIVERS	0	Cleaning up after frac	0
STATE AAC 2	87	11I 22S 36E	30-025-37566	New Drill	Gas	JALMAT	Producing	2006/04	TANSILL-YATES-SEVEN RIVERS	0	316	0
STATE AAC 3	5	10G 23S 36E	30-025-09303	Add pay & Frac	Gas	JALMAT	Shut In	2005/03	TANSILL-YATES-SEVEN RIVERS	0	0	25
STATE 157 G	5	5H 22S 36E	30-025-37801	New Drill	Gas	JALMAT	WO Compl	WO Compl	TANSILL-YATES-SEVEN RIVERS	0	WO Compl	0

Avg Initial Rate: 149

OFFSET JALMAT WELLS FOR PROPOSED NEW WELL (RECOMPLETE OF ACC 1 #86)										
SECTION: 10	SPOT:F		T23S R36E							
JALMAT FIELD, LEA CO, NM										
Well #	Sec/spot	Comp date	Zones	Pay interval	Treatment	Cum MMCF	Y-7R	Cur rate	Status	Y-7R
40-acre offsets, Sec 10:										
							MCFD			EUR
ACC1 #81	10C	Jan-60	Queen	3654-3780	10K# SD	0	0	0	T&A 9/99	0
		Sep-99	Y-7R	3083-3279	183K# SD	58	24	Active		118
ACC1 #49	10D	Mar-59	Queen	3690-3766	50K# SD	0	0	0	T&A 2/89	0
		Feb-89	Y-7R	3159-3638	185K# SD	346	2	Active		346
ACC1 #116	10D	Jan-84	Queen	3666-3842	7200 gal acid	0	0	0	T&A 10/92	0
ACC1 #55	10E	Mar-59	Queen	3678-3754	50K# SD	0	0	0	T&A 9/90	0
		Aug-90	Y-7R	3140-3530	90K# SD	185	2	Active		185
ACC1 #37	10F	Feb-53	Y	2959-3224	Natural	4088	1	Active		4088
AAC1 #86	10F	Apr-60	Queen	3660-3696	10 K# SD	0	0	0	T&A 12/93	0
			7R	Proposed Recompletion		0	0	0		704
ACC3 #5	10G	May-60	Queen	3502-3698	10K# SD	0	0	0	T & A 9/90	0
		Sep-90	Y-7R	3024-3457	74 K# SD	78	0	0	SI	78
		Mar-05	Y-7R	2941-3326	282 K# SD	0	0	0	SI	0
ACC3 #11	10G	May-84	Queen	3642-3754	5500 gal acid	0	0	0	T&A 10/92	0
ACC3 #4	10J	Feb-60	Queen	3677-3729	36K# SD	0	0	0	T&A 12/90	0
		Dec-90	Y-7R	3059-3503	160K# SD	167	0	0	SI	167
ACC3 #6	10J	Aug-60	Queen	3456-3602	40K# SD	0	0	0	P&A 12/94	0
		Oct-90	Y	2954-3065	219K# SD	0	0	0	P&A 12/94	0
			7R	To be re-entered		0	0	0		704
ACC1 #88	10K	May-60	Queen	3625-78	10K# SD	0	0	0	T&A 3/89	0
		Mar-89	Y-7R	3016-3568	156 K# SD	0	0	0	SI	0
Gazelle #1	10K	Mar-98	Abn	None	None	0	0	0	P&A 8/98	0
ACC1 #56	10L	May-59	Queen	3638-3721	50K# SD	0	0	0	P&A 9/92	0
		Mar-89	Y-7R	3284-3565	None	0	0	0	P&A 9/92	0

Jalmat - New Drill & Recomplete - Economics Summary Table

Input:

WI = 100 %	RI = 82.5%
Prod Start Date = Drill Date + 1 mth	
Initial Rate = 149 mcf/d + 0 bopd	(from avg of Mission/Petrohawk activity)
di = 40%	(from normalized type curve)
n = 3.5	(from normalized type curve)
NGL Yield = 136 bbls/mmcf	(from plant statements)
1-Gas Shrinkage = 59%	(from plant statements)
Plant Takes = 13% of residue gas & ngl	(contract with plant)
Gas Price = \$6.00/mcf flat	
Oil Price = \$60/stb flat	(no oil in economics)
NGL Price = \$42.60/stb flat	(71% of Oil)
OP Cost = \$1264/well/mth	(actuals from los statement)
CWC = 650 M\$ (New Drill)	CWC = 425 M\$ (Recomplete)

Results:

	<u>New Drill</u>	<u>Recompl</u>
8/8ths Reserves:	704 MMCFG	704 MMCFG
NPV @ 10%:	821 M\$	1039 M\$
ROR:	36%	65%
Payout:	40 mths	26 mths
ROI:	6.1	9.3

EXHIBIT 13

Affected Parties

**State A A/C 1 Well No. 86
Section 10, Township 23 South, Range 36 East, NMPM
Lea County, New Mexico.**

Arch Petroleum
10 Desta Dr. Suite 420E
Midland, TX 79705

PROPOSED WELLS IN SECTION 10-23S-36E

4

3

2

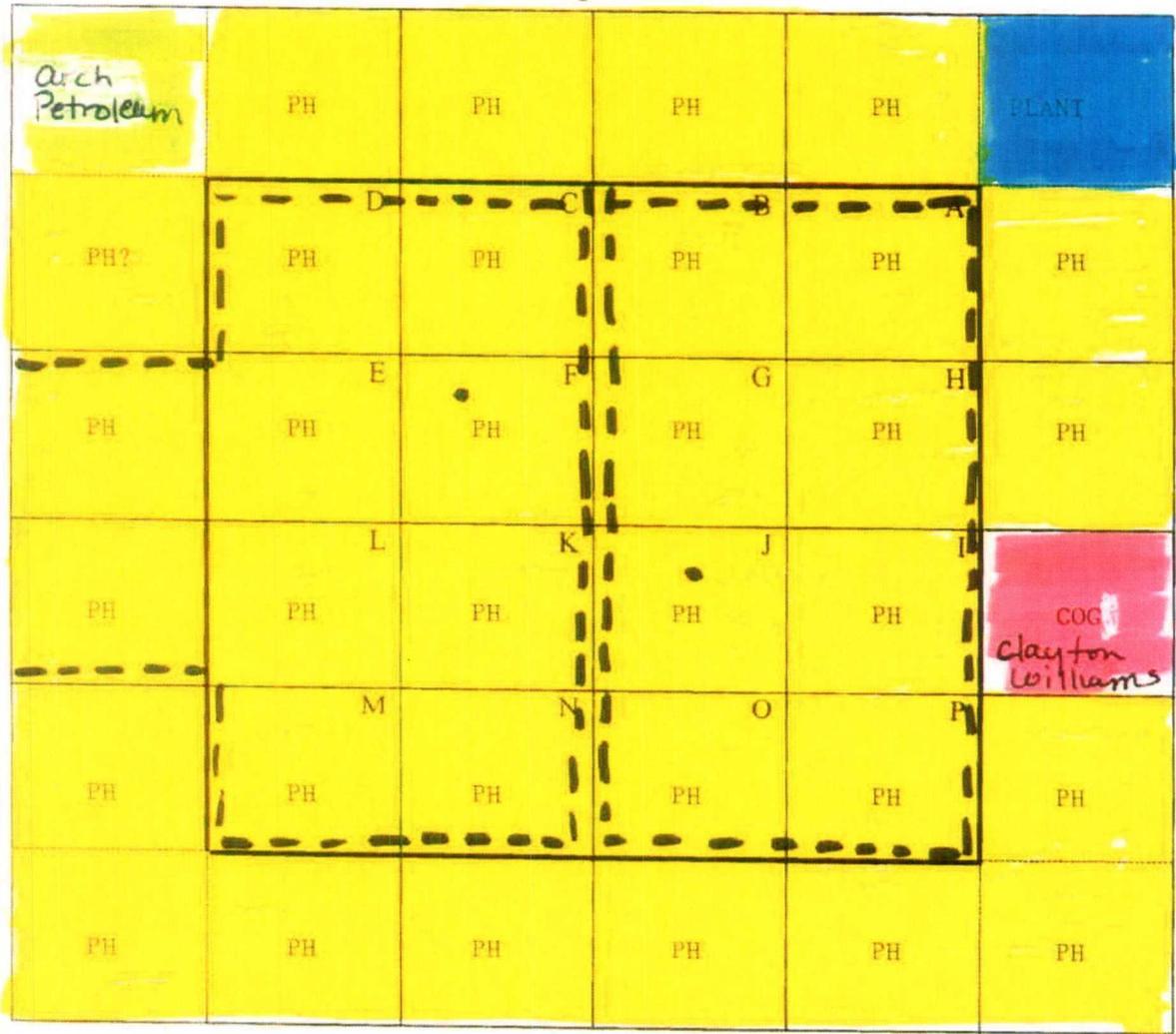
9

11

16

15

14



PH = Petrohawk
 PLANT = Plantation

