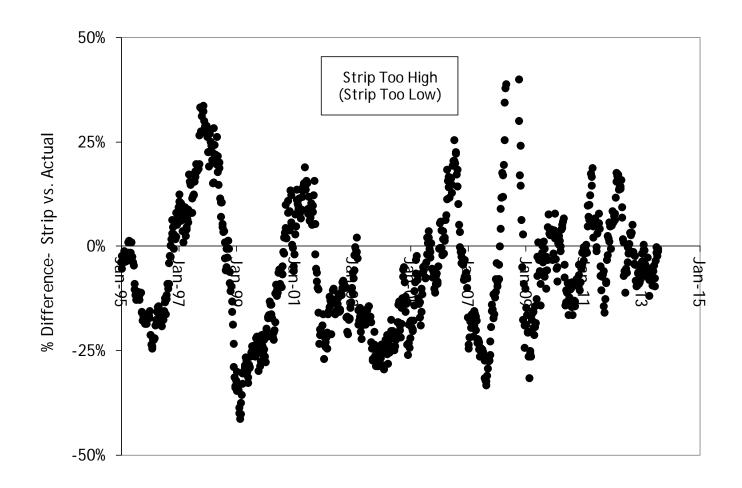


# Montana Oil & Gas

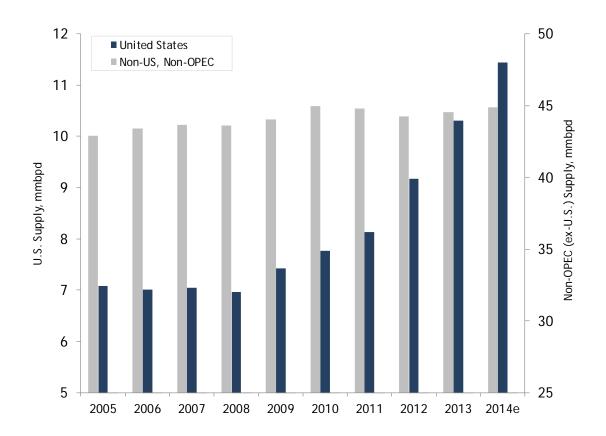
# Montana Legislative Services

David Pursell September 2014

# Oil Futures, Are They Accurate?



## Non-OPEC Oil Production

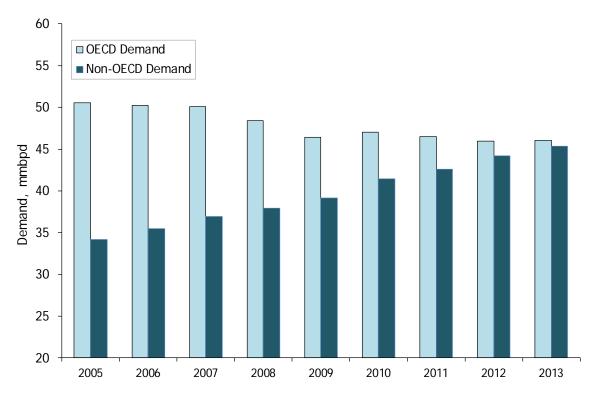


- Outside US onshore, non-OPEC growth is elusive
- Lack of exploration success + IOCs finding capital discipline = no change to trend

"I can hardly remember how I built my bankroll, but I can't stop thinking of how I lost it" Mike McDermott, Rounders

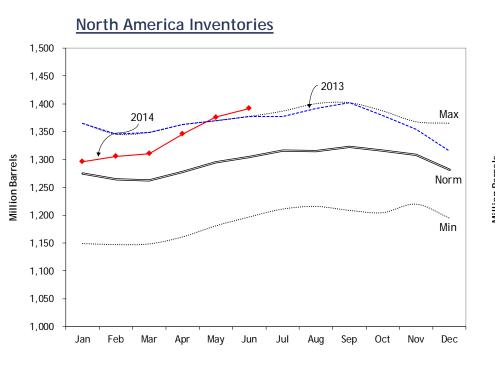


## Global Demand - The Rise of China/India

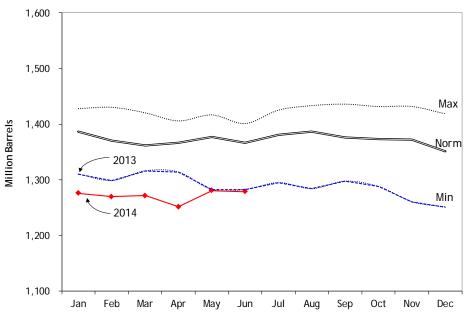


- Non-OECD demand steadily marches higher
- OECD demand is flat with Brent \$100/bbl

# **OECD Inventories**

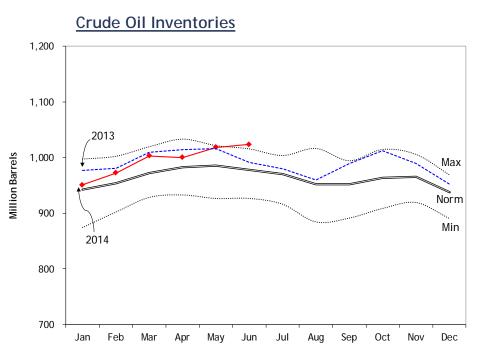


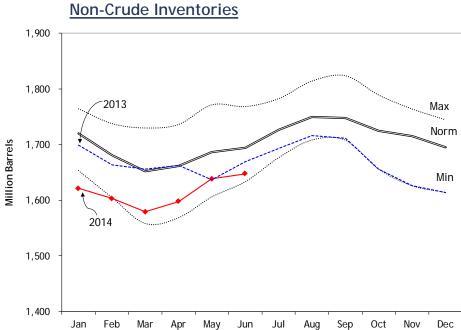
## Non-North America Inventories



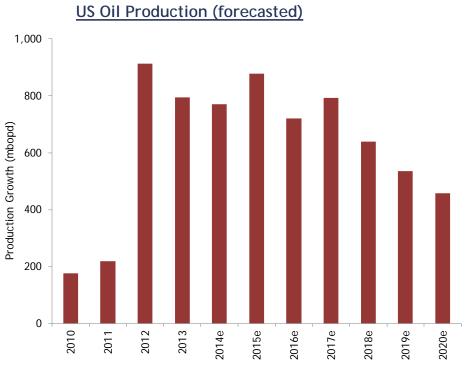


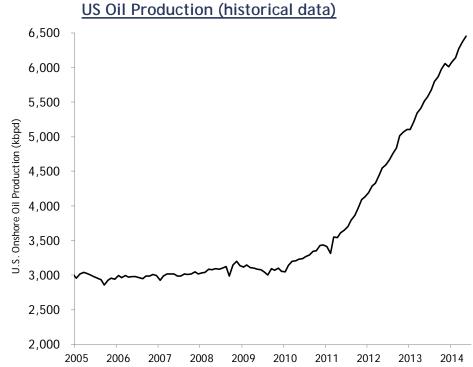
# **OECD Inventories**



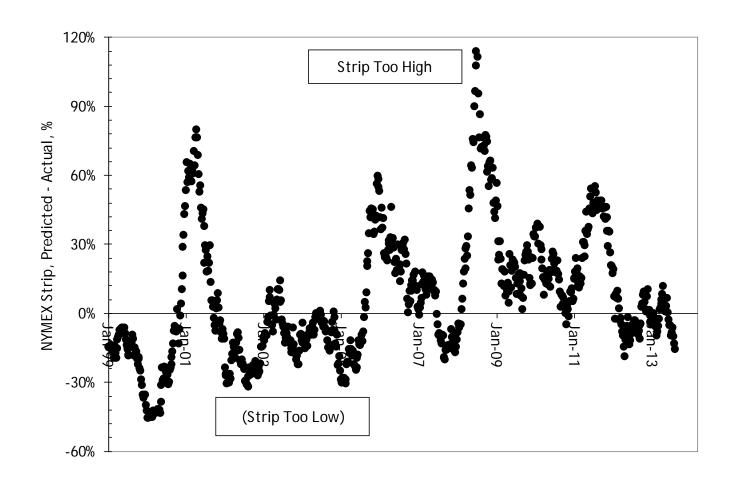


# **US Oil Production**

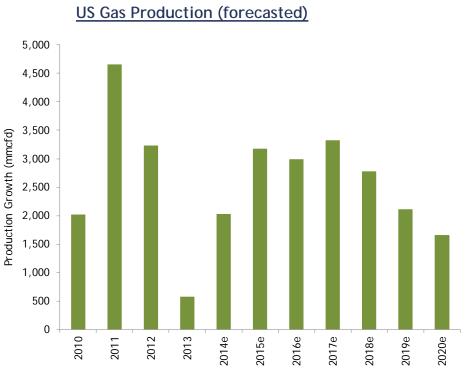




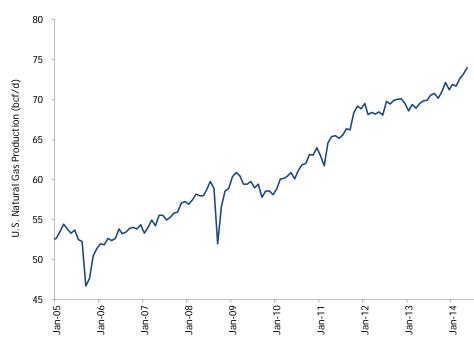
# Gas Futures, Are They Accurate?



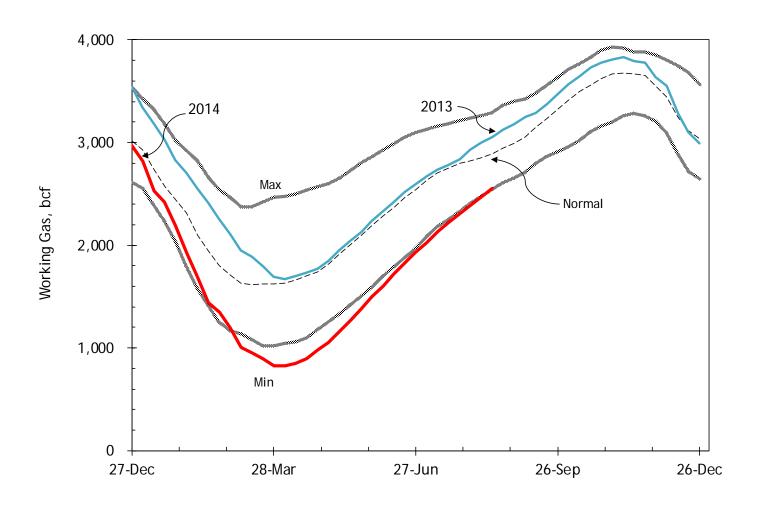
# **US Natural Gas Production**



## **US Gas Production (historical data)**



# Natural Gas Storage



## Conclusion

## Crude Oil

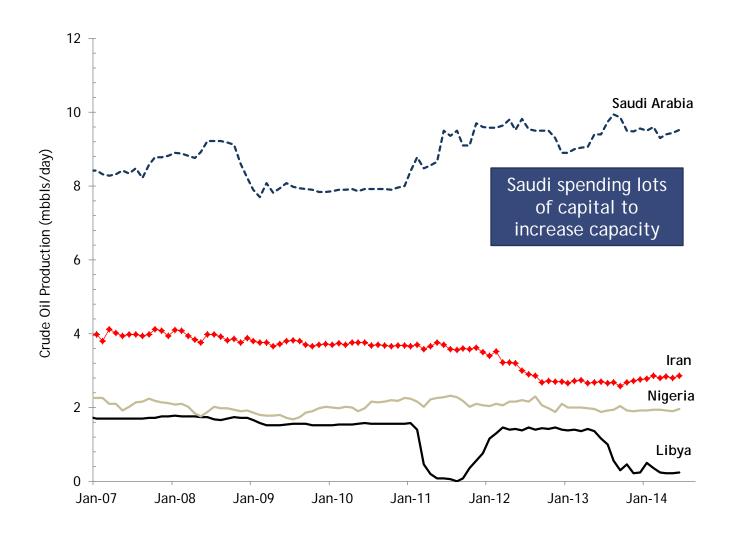
- □ Global seaborne (Brent) price should average ~\$100/bbl in 2014+
  - This assumes global demand remains solid
- US light sweet crudes will trade at a discount to Brent due to US production growth and the inability to export crude oil
  - Differentials to Brent will be volatile but we anticipate crude oil prices in 2013 will average:
    - Brent \$100/bbl
    - WTI \$90/bbl
    - Bakken \$85/bbl

### US Natural Gas

- 2015 Henry Hub \$3.75/mcf... bias lower
  - Production growth is the key
  - Demand coming later this decade

# **Appendix**

# **OPEC Oil Production**



## US Oil Production Forecast: Buckle Your Seatbelts!

|                       |               |       |       | Actuals |       |       | Forecast |       |       |        |        |        |        |       |
|-----------------------|---------------|-------|-------|---------|-------|-------|----------|-------|-------|--------|--------|--------|--------|-------|
|                       | Oil (mbopd)   | 2009A | 2010A | 2011A   | 2012A | 2013A | 2014E    | 2015E | 2016E | 2017E  | 2018E  | 2019E  | 2020E  | 2013A |
| Basin                 | Permian       | 863   | 907   | 1,009   | 1,188 | 1,346 | 1,575    | 1,836 | 2,100 | 2,385  | 2,645  | 2,908  | 3,187  | 1,841 |
|                       | Eagle Ford    | 19    | 68    | 230     | 564   | 962   | 1,251    | 1,477 | 1,695 | 1,873  | 2,015  | 2,137  | 2,246  | 1,284 |
| Ba                    | Bakken        | 253   | 359   | 513     | 801   | 1,025 | 1,126    | 1,299 | 1,436 | 1,571  | 1,700  | 1,769  | 1,770  | 745   |
| ailed Ba<br>Analysis  | Niobrara      | 53    | 60    | 75      | 100   | 152   | 230      | 311   | 398   | 482    | 547    | 601    | 647    | 495   |
| Detailed<br>Analy     | SCOOP         | 1     | 1     | 2       | 4     | 11    | 33       | 70    | 110   | 141    | 157    | 156    | 147    | 136   |
| ă                     | MS Lime       | 45    | 48    | 55      | 73    | 93    | 111      | 131   | 145   | 162    | 181    | 194    | 205    | 112   |
|                       | GW, Tonk, Cle | 54    | 71    | 105     | 121   | 122   | 125      | 129   | 133   | 137    | 140    | 142    | 145    | 23    |
|                       | Sub-Total     | 1,288 | 1,514 | 1,990   | 2,851 | 3,712 | 4,451    | 5,253 | 6,017 | 6,751  | 7,385  | 7,908  | 8,347  | 4,635 |
|                       | Growth        |       | 226   | 476     | 860   | 861   | 739      | 802   | 764   | 734    | 634    | 523    | 439    | NA    |
|                       | Other Texas   | 534   | 532   | 523     | 523   | 557   | 594      | 633   | 675   | 719    | 767    | 817    | 871    | 314   |
| Top Line<br>Estimates | FO Gulf       | 1,684 | 1,700 | 1,469   | 1,453 | 1,393 | 1,441    | 1,528 | 1,491 | 1,550  | 1,550  | 1,550  | 1,550  | 157   |
| j d                   | California    | 589   | 569   | 554     | 561   | 570   | 580      | 589   | 599   | 609    | 619    | 629    | 640    | 69    |
| Fst                   | Alaska        | 646   | 600   | 562     | 526   | 515   | 489      | 465   | 442   | 419    | 399    | 379    | 360    | (155) |
|                       | Other US      | 707   | 709   | 744     | 842   | 802   | 765      | 730   | 696   | 664    | 633    | 603    | 575    | (227) |
|                       | Sub-Total     | 4,160 | 4,109 | 3,852   | 3,905 | 3,838 | 3,870    | 3,945 | 3,902 | 3,961  | 3,967  | 3,978  | 3,995  | 158   |
|                       | Growth        |       | (50)  | (257)   | 53    | (67)  | 32       | 75    | (43)  | 59     | 6      | 11     | 17     | NA    |
|                       | TPH Forecast  | 5,448 | 5,624 | 5,842   | 6,755 | 7,550 | 8,320    | 9,198 | 9,919 | 10,712 | 11,351 | 11,886 | 12.343 | 4,793 |
|                       | Total Growth  |       | 176   | 218     | 913   | 795   | 771      | 877   | 721   | 793    | 639    | 535    | 457    | NA    |

- Oil growth rate maintains ~0.8mmbopd through 2017 before diminishing to <0.5mmbopd growth by 2020</li>
- Permian, Eagle Ford, Bakken account for 81% of net growth through 2020



~4.8mmbopd of growth by 2020 driven by a handful of known basins



# Rig Count Assumptions

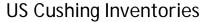
Future rig count growth will be centered in the Permian basin, but SCOOP and Niobrara are also important

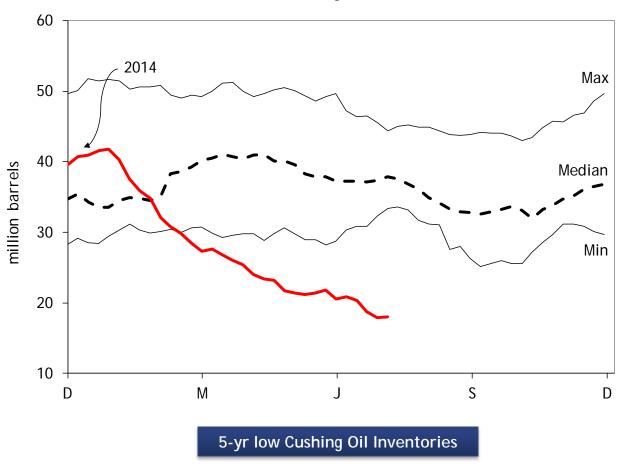
|               |        |       | Actuals Forecast |       |       |       |       |       |       |       | 2020E vs. |       |       |       |
|---------------|--------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|
| Rig Count     |        | 2009A | 2010A            | 2011A | 2012A | 2013A | 2014E | 2015E | 2016E | 2017E | 2018E     | 2019E | 2020E | 2013A |
| Permian       |        | 115   | 266              | 395   | 449   | 420   | 524   | 565   | 605   | 654   | 692       | 742   | 789   | 369   |
| Eagle Ford    |        | 19    | 83               | 176   | 229   | 208   | 202   | 202   | 202   | 202   | 202       | 202   | 202   | (6)   |
| Bakken        |        | 55    | 129              | 180   | 207   | 185   | 187   | 189   | 187   | 185   | 185       | 185   | 185   | (0)   |
| Niobrara      |        | 12    | 23               | 35    | 39    | 54    | 52    | 64    | 74    | 78    | 81        | 81    | 81    | 27    |
| SCOOP         |        | 2     | 8                | 13    | 19    | 28    | 44    | 59    | 64    | 69    | 69        | 69    | 69    | 41    |
| MS Lime       |        | 13    | 25               | 39    | 78    | 93    | 101   | 101   | 101   | 101   | 101       | 101   | 101   | 8     |
| GW, Tonk, Cle |        | 20    | 71               | 106   | 101   | 93    | 101   | 101   | 101   | 101   | 101       | 101   | 101   | 8     |
| TPH Forecast  |        | 238   | 603              | 945   | 1,122 | 1,082 | 1,211 | 1,280 | 1,334 | 1,390 | 1,431     | 1,481 | 1,528 | 445   |
|               | Growth |       | 365              | 342   | 177   | (40)  | 129   | 70    | 53    | 57    | 41        | 50    | 47    | NA    |
| Horizontal    |        |       |                  |       |       |       |       |       |       |       |           |       |       |       |
| Permian       |        | 22    | 50               | 95    | 149   | 193   | 307   | 348   | 388   | 437   | 475       | 525   | 572   | 379   |
| Eagle Ford    |        | 19    | 83               | 176   | 229   | 208   | 202   | 202   | 202   | 202   | 202       | 202   | 202   | (6)   |
| Bakken        |        | 55    | 129              | 180   | 207   | 185   | 187   | 189   | 187   | 185   | 185       | 185   | 185   | (0)   |
| Niobrara      |        | 1     | 5                | 14    | 25    | 50    | 51    | 63    | 73    | 77    | 80        | 80    | 80    | 30    |
| SCOOP         |        | 2     | 8                | 13    | 19    | 28    | 44    | 59    | 64    | 69    | 69        | 69    | 69    | 41    |
| MS Lime       |        | 1     | 7                | 21    | 57    | 78    | 84    | 84    | 84    | 84    | 84        | 84    | 84    | 6     |
| GW, Tonk, Cle |        | 20    | 71               | 106   | 101   | 93    | 101   | 101   | 101   | 101   | 101       | 101   | 101   | -     |
| Sub-Total     |        | 121   | 352              | 605   | 786   | 836   | 976   | 1,045 | 1,099 | 1,155 | 1,196     | 1,246 | 1,293 | 449   |
|               | Growth |       | 231              | 253   | 181   | 50    | 140   | 70    | 53    | 57    | 41        | 50    | 47    | NA    |
| Vertical      |        |       |                  |       |       |       |       |       |       |       |           |       |       |       |
| Permian       |        | 93    | 216              | 301   | 300   | 227   | 217   | 217   | 217   | 217   | 217       | 217   | 217   | (10)  |
| Eagle Ford    |        | -     | -                | -     | -     | -     | -     | -     | -     | -     | -         | -     | -     | - 1   |
| Bakken        |        | -     | -                | -     | -     | -     | -     | -     | -     | -     | -         | -     | -     | -     |
| Niobrara      |        | 12    | 18               | 21    | 14    | 4     | 1     | 1     | 1     | 1     | 1         | 1     | 1     | (3)   |
| SCOOP         |        | -     | -                | -     | -     | -     | -     | -     | -     | -     | -         | -     | -     | - ' ' |
| MS Lime       |        | 12    | 18               | 18    | 22    | 15    | 17    | 17    | 17    | 17    | 17        | 17    | 17    | 2     |
| GW, Tonk, Cle |        | -     | -                | -     | -     | -     | -     | -     | -     | -     | -         | -     | -     |       |
| Sub-Total     |        | 117   | 251              | 340   | 336   | 247   | 235   | 235   | 235   | 235   | 235       | 235   | 235   | (12)  |
|               | Growth |       | 134              | 89    | (4)   | (89)  | (12)  | -     | -     | -     | -         | -     | -     | NA    |

We assume no growth in vertical drilling activity

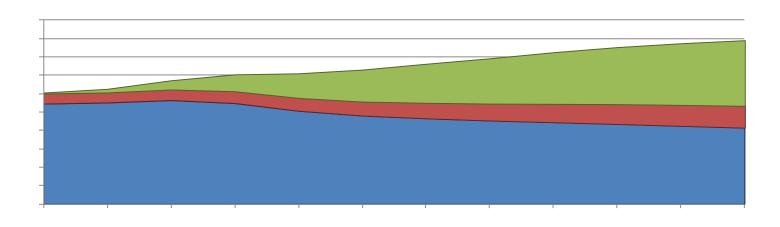


# **Cushing Inventories**





# Estimated US Gas Production\*



|                  |        |        |        |        |             |        |        |        |        |        |        |        | 2020 vs. |
|------------------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|----------|
|                  | 2009   | 2010   | 2011   | 2012   | 2013        | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020   | 2013     |
| All Other Basins | 27,687 | 25,915 | 24,626 | 23,755 | 22,579      | 21,461 | 20,399 | 19,389 | 18,429 | 17,517 | 16,650 | 15,826 | (6,753)  |
| Marcellus        | 226    | 1,356  | 3,568  | 6,304  | 8,644       | 10,550 | 12,337 | 14,101 | 16,091 | 17,882 | 19,407 | 20,703 | 12,059   |
| Haynesville      | 4,421  | 6,767  | 9,370  | 9,125  | 7,281       | 6,357  | 5,917  | 5,668  | 5,519  | 5,417  | 5,344  | 5,292  | (1,989)  |
| Eagle Ford       | 297    | 609    | 1,433  | 2,845  | 4,338       | 5,348  | 6,186  | 7,013  | 7,697  | 8,246  | 8,721  | 9,146  | 4,808    |
| Barnett          | 5,212  | 5,354  | 5,697  | 5,706  | 5,337       | 4,855  | 4,531  | 4,355  | 4,239  | 4,157  | 4,098  | 4,054  | (1,283)  |
| Permian          | 4,300  | 4,189  | 4,199  | 4,307  | 4,419       | 4,548  | 4,765  | 5,036  | 5,346  | 5,662  | 5,969  | 6,262  | 1,843    |
| FO Gulf          | 6,657  | 6,159  | 4,974  | 4,124  | 3,586       | 3,453  | 3,481  | 3,343  | 3,305  | 3,173  | 3,046  | 2,924  | (662)    |
| Fayetteville     | 1,646  | 2,347  | 2,787  | 2,983  | 2,965       | 2,958  | 2,955  | 2,967  | 2,999  | 3,038  | 3,079  | 3,121  | 156      |
| Pinedale         | 3,223  | 3,055  | 3,002  | 2,921  | 2,800       | 2,736  | 2,725  | 2,721  | 2,724  | 2,731  | 2,741  | 2,751  | (49)     |
| Granite Wash     | 1,972  | 2,011  | 2,308  | 2,468  | 2,430       | 2,370  | 2,326  | 2,321  | 2,322  | 2,327  | 2,328  | 2,317  | (112)    |
| Piceance         | 2,749  | 2,521  | 2,569  | 2,497  | 2,281       | 2,139  | 2,068  | 2,024  | 1,995  | 1,975  | 1,960  | 1,948  | (334)    |
| Utica            | 0      | 2      | 9      | 56     | 421         | 1,550  | 2,765  | 3,604  | 4,373  | 4,991  | 5,506  | 5,958  | 5,537    |
| Bakken           | 316    | 423    | 610    | 861    | 1,065       | 1,228  | 1,437  | 1,580  | 1,686  | 1,783  | 1,792  | 1,759  | 694      |
| Niobrara         | 544    | 584    | 658    | 787    | 867         | 1,070  | 1,376  | 1,644  | 1,918  | 2,148  | 2,339  | 2,488  | 1,622    |
| Cana Woodford    | 901    | 933    | 1,024  | 1,109  | 1,074       | 1,027  | 990    | 973    | 962    | 953    | 946    | 939    | (134)    |
| MS Lime          | 601    | 546    | 584    | 749    | 888         | 971    | 1,053  | 1,121  | 1,229  | 1,358  | 1,447  | 1,513  | 625      |
| SCOOP            | 13     | 15     | 25     | 76     | 273         | 658    | 1,141  | 1,584  | 1,928  | 2,186  | 2,284  | 2,310  | 2,037    |
| TPH Forecast     | 60,765 | 62,785 | 67,441 | 70,672 | 71,247      | 73,279 | 76,452 | 79,444 | 82,765 | 85,545 | 87,656 | 89,313 | 18,065   |
| Growth           |        | 2,020  | 4,655  | 3,232  | <i>57</i> 5 | 2,032  | 3,173  | 2,992  | 3,321  | 2,781  | 2,111  | 1,656  |          |

<sup>\*</sup>Two Stream Production

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#### RESEARCH

### Oil Service / E&C Jeff Tillery 713-333-2964 jtillery@TPHco.com

Byron Pope 713-333-7690 bpope@TPHco.com

George O'Leary 713-333-2973 goleary@TPHco.com

Klayton Kovac 713-333-3866 kkovac@TPHco.com

Shola Labinjo\*\* +44 20 3008 6437 slabinjo@TPHco.com

## Integrated Oils Dave Pursell

713-333-2962 dpurseII@TPHco.com

Anish Kapadia\*\* +44 20 3008 6433 akapadia@TPHco.com

David Gamboa\*\* +44 20 3427 5896 davidgamboa@TPHco.com

## E&P

Matt Portillo 713-333-2995 mportillo@TPHco.com

Michael Rowe 713-333-3983 mrowe@TPHco.com

Jeoffrey Lambujon 713-333-7549 jlambujon@TPHco.com

Henry Wyche 713-333-2993 hwyche@TPHco.com Jamaal Dardar

713-333-3926 jdardar@TPHco.com

## **E&P International** Anish Kapadia\*\*

Shola Labinjo\*\*

+44 20 3008 6437

+44 20 3008 6433 akapadia@TPHco.com

slabinjo@TPHco.com

David Gamboa\*\* +44 20 3427 5896

davidgamboa@TPHco.com

#### Macro

Dave Pursell 713-333-2962 dpurseII@TPHco.com

Brandon Blossman 713-333-2994 bblossman@TPHco.com

## **Midstream**

**Brad Olsen** 713-333-7693 bolsen@TPHco.com

#### Coal / Power

Brandon Blossman 713-333-2994 bblossman@TPHco.com

### **Utilities / Power**

Neel Mitra 713-333-3896 nmitra@TPHco.com

Ryan Caylor 713-333-7694 rcavlor@TPHco.com

#### **SALES**

#### Houston

Clay Coneley 713-333-2979 cconeley@TPHco.com

Mike Bradley 713-333-2968 mbradley@TPHco.com

Mike Davis 713-333-2971 mdavis@TPHco.com

Oliver Doolin 713-333-2989 odoolin@TPHco.com John Hurd

713-333-2951 jhurd@TPHco.com

Aly McCaffrey 713-333-2983 amccaffrey@TPHco.com

#### Denver

Win Oberlin 303-300-1919 woberlin@TPHco.com

Jason Foxen 303-300-1960 jfoxen@TPHco.com

#### **New York**

Ken Johnson 212-610-1650 kjohnson@TPHco.com

Craig Webster 212-610-1652 cwebster@TPHco.com

#### London

Jonathan Wright\*\* +44 20 3008 6436 jwright@TPHco.com

#### **TRADING**

Houston - (800) 507-2400

Scott McGarvey smcgarvey@TPHco.com

Seth Williams swilliams@TPHco.com

New York - (800) 507-2400

Todd Wood twood@TPHco.com

#### London

Harry Grist\*\* hgrist@TPHco.com +44 20 3427 5832

Richard Heggs\*\* rheggs@TPHco.com +44 20 3427 5833

### Refiners

Dave Pursell 713-333-2962 dpurseII@TPHco.com

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