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Exhibit C

DeNovo 21321 Hearing November 4, 2020 Oil Conservation Commission

> EOG Resources, Inc. Sworn Testimony of David Carlos Sonka

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STATE OF NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION COMMISSION

APPLICATION OF COG OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case Nos. 20923, 20924, 20925 Order R-21308 De Novo Case No. 21321

SWORN TESTIMONY

STATE OF TEXAS }
ss
COUNTY OF MIDLAND }

My name is David Carlos Sonka. I have been recognized as an expert petroleum engineer and have testified as such before the NMOCD on two occasions. I was awarded a Bachelor of Science degree in Petroleum Engineering from Texas A&M University in May 2016. Since June 2016, I have worked as a petroleum engineer for EOG Resources, Inc. in Midland, Texas, supporting exploration and production operations in Lea County, New Mexico. In the course and scope of my employment, I advise mostly on matters surrounding unconventional hydrocarbon reservoirs and the economics of oil and gas projects. A substantial portion of my work responsibilities involve forecasting production of oil and gas wells, both existing and not yet drilled. Specifically, I generate development plans to optimally develop acreage based on production forecasts and cost expectations.

In the present case, I helped generate the development plan that was proposed to our partners in the subject lands, known as EOG's Igor and Double ABJ units. I studied the well proposals EOG received from COG Operating LLC ("Concho"), known as its Mastiff development area, and reviewed Concho's applications for the compulsory pooling of EOG's Igor and Double ABJ leasehold. I have prepared this testimony to show the potential negative impacts to the correlative rights of EOG and its interest owners, and the waste, both economic through Concho's higher well costs and lower ultimate recovery compared to EOG, and waste of natural resources due to hydrocarbons that will not be recovered, which will result if Concho's compulsory pooling applications are granted. I also prepared Exhibit C, which is referenced throughout this testimony.

As a part my study of this matter, I considered the differences between Concho's and EOG's development plans, particularly:

- Comparison of which economically viable geologic targets are included in each development plan;
- Whether existing wells are impacting the development plans;

- · EOG's and Concho's expectations regarding cost of the wells; and
- EOG's and Concho's historical production performance in geologically analogous sections.

The factors on **EXHIBIT** C slide 2 are expected to damage interest owners in the subject lands and reduce the recovery of the resources for all stakeholders. The testimony to follow and the referenced exhibits show that Concho's plan to lengthen the laterals of its section 4 Mastiff development by extending north into the W/2 of Section 33, T23S-R32E (EOG's Igor development area, in which Concho owns no interest), and south into the SE/4 of Section 9, T24S-R33E (EOG's Double ABJ development area, in which Concho also owns no interest), will cause significant damage to EOG and the other parties with an interest in those sections, and will waste the resources of New Mexico.

The competing development plans in Igor (W/2 of Section 33) have several differences. Concho's plan **EXHIBIT C slide 3** and EOG's plan **EXHIBIT C slide 4**, target different geologic intervals, are spaced differently, and have material differences regarding total well costs **EXHIBIT C slide 8**. Concho's plan does not include development in either the First Bone Spring (FBSG) or the Third Bone Spring (TBSG) intervals **EXHIBIT C slide 5**. Concho's plan also must contend with a depletion front caused by Concho's Mastiff Fed #3H well **EXHIBIT C slide 6 and 7**. The differences in spacing, as well as operational differences between the operators, are expected to influence the production of the wells in the development plans. These differences are detailed below.

Existing Mastiff Fed #3H

Concho has already begun 1-mile lateral development in Section 4, T24S-R32E. According to publicly available data, Concho's existing Mastiff Fed #3H well has produced the following volumes through July 2020:

- 212,703 bbl oil;
- 439,721 mcf gas; and
- 511,464 bbl water.

The Mastiff Fed #3H well targets the Second Bone Spring (SBSG) interval. The SBSG is a depletion-drive reservoir. This means that under primary production, the energy driving fluids through the formation and into the wellbore comes from the expansion of oil and gas within the reservoir. As the reservoir fluids expand and are produced, the pressure in the reservoir decreases. Subsequent wells drilled in the drainage area of an existing well will face two major impediments to production and ultimate recovery. First, a portion of the liquids in the drainage area have been produced already, meaning they are unavailable to the subsequent well. Second, in hydraulically stimulated wells, the region of reduced pressure can impede effective stimulation. The quantity of prior production from the SBSG will affect the proposed Mastiff #504H and #505H significantly. EOG's SBSG acreage in its Igor development area in the W/2 of Section 33 does not offset any

wellbores that would reduce its reservoir pressure. For these reasons, the lands that Concho would contribute to the proposed Mastiff SBSG wells and the lands EOG would be forced to contribute to the same wells if compulsory pooled are not equivalent.

Differences in Targets, Well Costs, and Production

Concho's plan for development based on proposed locations is laid out spatially on a stacked lateral **EXHIBIT C slide 3.** I have collected Concho's AFEs for these wells and used them to analyze well costs and well economic expectations on Exhibit A-10.

EOG's plan for development based on proposed locations is also laid out spatially on a stacked lateral **EXHIBIT C slide 4.** I have used AFEs EOG has provided to partners to analyze well costs and economic expectations.

The differences between EOG's and Concho's development plans include:

- Concho's AFEs include charges for facility spend and artificial lift installation, EOG's
 do not. To make the AFEs comparable, proportional facility charges and well artificial
 lift installs were added to EOGs AFEs so that well costs could be contrasted, and
 economic expectations could be calculated.
- 2) Concho's proposals do not include any wells in the FBSG or TBSG (Exhibit C slide 5). These targets contain hydrocarbons and can be developed economically. If the wells are not drilled in a reasonable timeframe with the other targets, the pressure drawdown from other targets can impede completion of the wells such that the locations are no longer economic. This underdevelopment means some of the resources will be wasted.
- 3) Concho's development plan only has two future SBSG wells in the W/2 of Section 4. This is due to the presence of the previously discussed Mastiff Fed #3H (API # 3002542064).
 - a. Furthermore, the fact that Concho has already begun development means that the easternmost lane of W/2 of Section 4 is blocked, and a portion of EOG's Igor Section 33 will be stranded and undeveloped if the pooling order is granted EXHIBIT C slide 8. The undeveloped acreage will result in waste of the resources in place and will impair EOG's and other working interest owners' correlative rights.
- 4) EOG's and Concho's proposals for wells in the same target are compared on **EXHIBIT C slide 9**. Across all targets Concho plans to develop, their well costs are materially higher than EOG's. This means EOG and the other working interest owners in EOG's Igor development area will pay needlessly higher costs to develop the resources if a compulsory pooling order is granted, resulting in economic waste to

EOG and the other Igor working interest owners, which is in addition to the waste of hydrocarbons discussed above.

Expectations for Economic Performance of the Proposed Wells

Denton O'Neal's testimony identified existing wells in the geologic equivalents to the proposed wells for both EOG and Concho (Exhibit B slides 1-4). Production from existing wells is publicly reported, and the production of exiting, analogous wells can be used to generate production forecasts to evaluate economic expectations for future wells. Based on the expected production and costs, expected value and ultimate recovery of a well can be determined.

I calculated expected value and recovery for EOG's and Concho's well proposals. Value is the sum of all net cash flow produced by the well, discounted back 10% to present. Recovery is the sum of all barrels of oil equivalents that can be economically produced. Cash flow is considered before applicable federal income taxes to simplify differences in tax structure of the diverse working interest owners under the proposals. The differences between the value and ultimate recovery of EOG's planned wells and Concho's planned wells demonstrate that an impairment to the value of EOG's and other working interest owners acreage in EOG's Igor and Double ABJ development areas will result if COG's applications for compulsory pooling are granted, as will the waste of hydrocarbons.

For each geologic target, I considered the averaged production of analogous wells (scaled to either 1.5-mile lateral length for Double ABJ or 2-mile lateral length for Igor), the AFE cost published to partners, and a set of static parameters regarding lease operating expenses, timing, and commodity pricing. Length normalization is linear- one mile well production is doubled for two-mile curves and multiplied by 1.5 for 1.5-mile curves. Pricing used was the New York Mercantile Exchange forward strip for WTI oil and Henry Hub natural gas as of 10/18/2020. Concho's lease operating expenses are not known, so I applied EOG's expenses to both scenarios.

The separate analyses for EOG's Igor and Double ABJ units, in each of the denoted formations, are set forth under those respective headings below.

IGOR

Leonard Shale

Analogous wells for well proposals targeting the Leonard Shale (aka Avalon Shale) are listed on **EXHIBIT C slide 9**. An average of production rates from Concho's analogous wells based on how many days such wells have been producing is in a green dashed line on **EXHIBIT C slide 10**. The black line is a curve fit through the green data to forecast future production beyond where actual data stops. **EXHIBIT C slide 11** shows the fit of the curve to the cumulative actual data of Concho's analogous wells. **EXHIBIT C slides 12 and 13** show the same exercise for EOG's analogous wells. **EXHIBIT C slides 14-15** is a comparison of the Leonard curves for EOG and Concho. Based on actual, historical data, EOG's wells targeting the Leonard Shale in geologically

equivalent section are more productive than Concho's wells. **EXHIBIT C slide 16** shows a comparison of economic metrics associated with the curves regarding EOG's Igor section (Section 33, T23S-R32E). The total capital is the amount from published AFEs (EOG's AFE cost has been increased to account for certain items included on Concho's AFEs). Gross Sold BOE EUR is the total economic recovery of oil equivalents in thousands. Barrels of oil equivalents are barrels of oil or natural gas liquids, or 6 thousand cubic feet of natural gas at standard conditions. NPV10 is the net present value, discounted 10% per year. Net present value is the difference of all cash inflows (net revenue from selling commodities) less all cash outflows (capital, operating expenses). BFIT means before federal income taxes. ROR is the rate of return, or the discount rate at which net present value is \$0.

The first table shows significant differences between the economic expectations of Concho's wells and EOG's wells on a per-well basis. Because Concho's proposed Mastiff wells are 2 miles in length, and only 1 mile is in Igor, the per-well metrics are proportioned down to half to capture the portion attributable to Igor (Section 33, T23S-R32E). Such attributed portion is then multiplied by the number of proposed wells. If Concho's applications for compulsory pooling are granted, and Concho is granted operatorship in Igor, EOG and its other interest owners can expect to suffer an impairment of \$51,300,000 in BFIT NPV10 versus their situation today, and the Igor leases can be expected to produce approximately 2,346,000 fewer barrels of oil equivalents than if EOG operates Igor.

First Bone Spring

The exercise is repeated for proposed wells targeting the First Bone Spring formation on **EXHIBIT C slides 17–20**. In this case, Concho has not proposed wells in the target. Whether Concho ever intends to develop the FBSG is in doubt. Development of the LNRD (Avalon) shale will impact the potential of the FBSG, especially if there is substantial production prior to FBSG stimulation. Based on the expectation for EOG well production, if Concho's applications for compulsory pooling are granted, and Concho is granted operatorship in Igor, EOG and its other interest owners can expect to suffer an impairment of \$13,600,000 in BFIT NPV10 versus their situation today, and the Igor leases can be expected to produce approximately 1,656,000 fewer barrels of oil equivalents than if EOG operates Igor.

Second Bone Spring

The exercise is repeated for the Second Bone Spring formation on **EXHIBIT C slides 21–28**. Because Concho has already begun development in the formation in Section 4, a well drilled from Section 4 into Section 33 will suffer from the existing depletion. The effects of the depletion will manifest as reduced stimulation efficiency, elevated water to oil production ratio, and reduced ultimate production. The effects will be apparent on the immediate offset well and could be apparent on both of Concho's proposed SBSG wells. The "IGOR SBSG 2 CXO OD" curve in the table on **EXHIBIT C slide 30** demonstrates expected performance reductions associated with the depletion. EOG's wells drilled in Igor will not experience the effects of depletion because they

will not offset a producing well. The contribution of lands to a SBSG well such as Concho has proposed would not be equivalent in terms of value or reservoir quality. Moreover, the presence of Concho's existing one-mile development impedes effective development of the SBSG. Concho has proposed 660', evenly-spaced laterals to develop the SBSG where there are no existing wells, but the proposal contains a ~2,070' gap because of the existing Mastiff Fed #3H well. Wells spaced 2,070' apart in the SBSG are not capable of draining the reservoir efficiently and will destroy value and result in the waste of hydrocarbons. If Concho's applications for compulsory pooling are granted, and Concho is granted operatorship in Igor, EOG and its other interest owners can expect to suffer an impairment of \$26,220,000 in BFIT NPV10 versus their situation today, and the Igor leases can be expected to produce approximately 1,708,000 fewer barrels of oil equivalents than if EOG operates Igor.

Third Bone Spring

EXHIBIT C slides 29–32 show the exercise for proposed wells targeting the Third Bone Spring formation (TBSG). Concho has not proposed wells in Third Bone Spring. Whether Concho ever intends to develop the TBSG is in doubt. Development of the surrounding formations will impact the potential of the TBSG, especially if there is substantial production prior to TBSG stimulation. Based on the expectations for EOG well production, if Concho's applications for compulsory pooling are granted, and Concho is granted operatorship in Igor, EOG and its other interest owners can expect to suffer an impairment of \$15,600,000 in BFIT NPV10 versus their situation today, and the Igor leases can be expected to produce approximately 1,881.000 fewer barrels of oil equivalents than if EOG operates Igor.

Wolfcamp Shale

The exercise is repeated for proposed wells targeting the Wolfcamp Shale (WFMP) formation on **EXHIBIT** C slides 33-39. I was not able to locate many wells that Concho has drilled in the Wolfcamp Shale near the subject area. The two wells I was able to locate began producing in February 2020, which means only around 5 months of production data is publicly available. To understand the late-time behavior of wells Concho has stimulated. I expanded the search to include wells in the Wolfcamp Shale that Concho drilled further away than in the previously discussed targets. The fact that Concho has only recently begun developing the formation near the subject area widens the uncertainty of expectations. EXHIBIT C slide 35 shows the new wells and the older wells broken out. The unbounded nature of the two Eider wells Concho has drilled means they have more pressure support than the 500' spaced Concho-proposed wells. My judgement is that the wells will decline to represent Concho's bounded wells, which were captured in the expanded search. Though the range of outcomes is wider over the WFMP wells, if Concho's applications for compulsory pooling are granted, and Concho is granted operatorship in Igor, EOG and its other interest owners can expect to suffer an impairment of \$15,600,000 in BFIT NPV10 versus their situation today, and the Igor leases can be expected to produce approximately 1,780,000 fewer barrels of oil equivalents than if EOG operates Igor.

Total IGOR

The cumulative impairment associated with Concho operating Igor is expected to total \$122,320,000 in terms of NPV10. The wasted resource associated with Concho operating Igor is expected to total 9,371,000 barrels of oil equivalents. This conclusion is broken out by formation on **EXHIBIT C slide 40**. The negative impact to the State of New Mexico through the significant reduction in severance taxes and royalties caused by the waste of hydrocarbons will be substantial.

DOUBLE ABJ

I conducted the same analysis on Double ABJ as is described above on Igor. However, Double ABJ differs from Igor in that the outcome of this hearing will result in either 1.5-mile EOG-operated wells or 2 mile Concho-operated wells over the southeast quarter of section 9, T24S-R33E, with interest owners sharing 1/3 or 1/4 of the lateral, respectively. Also, the lease royalty is 1/6, versus the 1/8 in Igor. The curves used for calculations are the same as for Igor given the geologic similarity of formations that proposed wells will target. The 1.5-mile EOG wells are scaled to 75% of the 2 mile well curves and have the 1.5-mile AFE costs EOG has sent to partners applied (with an adjustment for artificial lift and proportional facility costs added). **EXHIBIT C slides 41-43** illustrate the differences in proposed development plans and well costs. Concho's ongoing, 1-mile development in Mastiff is expected to affect the nearest, proposed SBSG well in Double ABJ.

The calculations of impairments and waste by formation are shown on EXHIBIT C slides 44 -49. Over the Leonard Shale, Concho's proposal will impair the lease by ~\$32,700,000 and produce approximately 2,035,000 fewer barrel of oil equivalents compared with EOG's development plan. In the FBSG, Concho has no proposed plan to develop. Not developing the FBSG wells is expected to result in ~\$5,480,000 in lost value to interest owners and approximately 825,000 fewer barrels of oil equivalents produced versus developing as EOG has proposed. In the SBSG, Concho's ongoing 1-mile development affects their Section 4 (Mastiff) acreage. Concho's proposal to combine depleted acreage and virgin acreage, as well as their elevated well costs and historically lower production, would destroy ~\$23,850,000 in value to interest owners and approximately 1,649,000 barrels of oil equivalents worth of resource potential compared with EOG's proposed development. Concho has not proposed any development in the TBSG. Not developing the TBSG is expected to result in ~\$7,900,000 in lost value to interest owners and approximately 942,000 fewer barrels of oil equivalents produced versus development according to EOG's proposed plan. Both the FBSG and TBSG could be impacted by development in other zones. Finally, should Concho gain operatorship in Double ABJ, its proposed WFMP wells are expected to result in ~\$8,210,000 in lost value to interest owners and approximately 365,000 fewer barrels of oil equivalents produced compared to EOG's proposed WFMP wells.

In total, Concho operating Double ABJ is expected to impair the lease by \$78,140,000 in terms of NPV10. The wasted resource associated with Concho operating Double ABJ is expected to total 5,798,000 barrels of oil equivalents. This conclusion shown on **EXHIBIT C slide 50**.

Conclusion

Public data and the referenced exhibits, which include Concho's own AFEs, indicate that Concho wells are more expensive and less productive than EOG wells. In addition, Concho's decision to develop Section 4 at one mile through its Mastiff Fed #3H well has permanently defined a region of reduced pressure in the subject area. EOG's plan to develop acreage it owns or controls through voluntarily agreements maximizes the value of the acreage and the volume of hydrocarbons produced from the subject areas. Concho's plan to skip targets and well locations, drill with high costs, and produce fewer barrels of oil will impair the value of leases, and wastefully leave recoverable hydrocarbons in the ground. The parties with an ownership in those lands which Concho is seeking to expand its development area into will suffer a combined \$200,460,000 impairment in NPV10 if this order is granted. Moreover, if the order is granted, approximately 15,170,000 barrels of oil equivalents of New Mexico's resources will be wasted, resulting in an equivalent reduction in associated revenue to the state and federal governments.

DAVID CARIOS SONKA

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SUBSCRIBED AND SWORN to before me this

Carlos Sonka on behalf of EOG Resources, Inc.

day of October, 2020 by David

Notary Public

My Commission Expires:

TRACY JORDAN

Notary Public, State of Texas

Comm. Expires 10-17-2023

Notary ID 132215654



lgor / Double ABJ Pooling

Exhibits on Impact to Correlative Rights and Potential for Waste

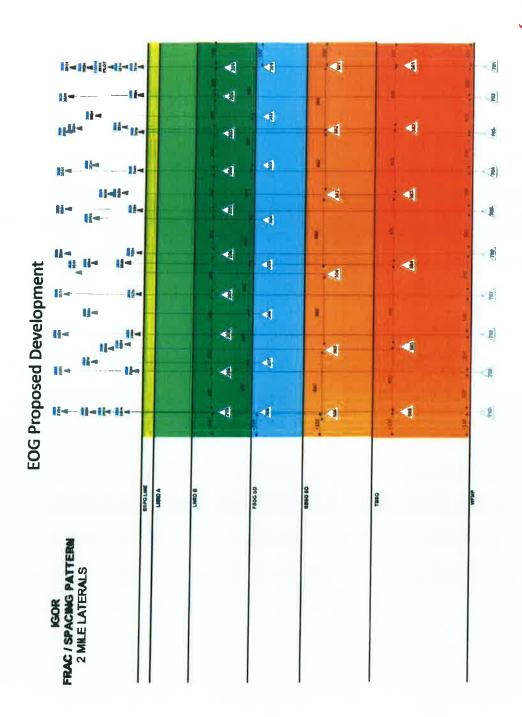
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Factors That Could Impair Correlative Rights Or Cause Waste

- Omitting economically viable geologic targets from development plan
- Skipping well locations due to existing wells in the project area

Higher than necessary development capital requirements

- Inefficient drainage of the reservoir
- Improper spacing of wells
- Inability to complete optimally due to presence of depletion
- Suboptimal operations

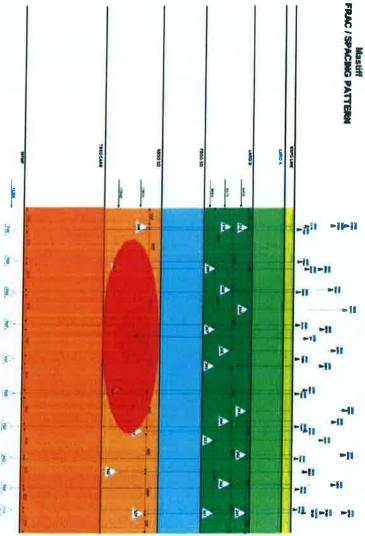


Concho proposals

EOG proposals

je

511,464 bbl water API #3002542064 Mastiff Fed #3H 439,721 mcf gas 212,703 bbl oil Cumulative Production thru 07/20



Source of production data:

https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-025-42064

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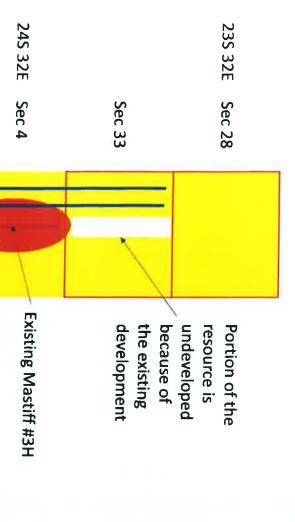
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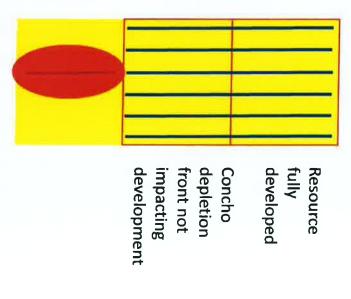


IGOR SBSG Comparison

Concho Development Plan



EOG Development Plan





For proposed SBSG wells into Igor, EOG would contribute reservoir at virgin pressure, whereas Concho would contribute reservoir they have already

depleted

Concho's expensive well costs impair the value of the leases

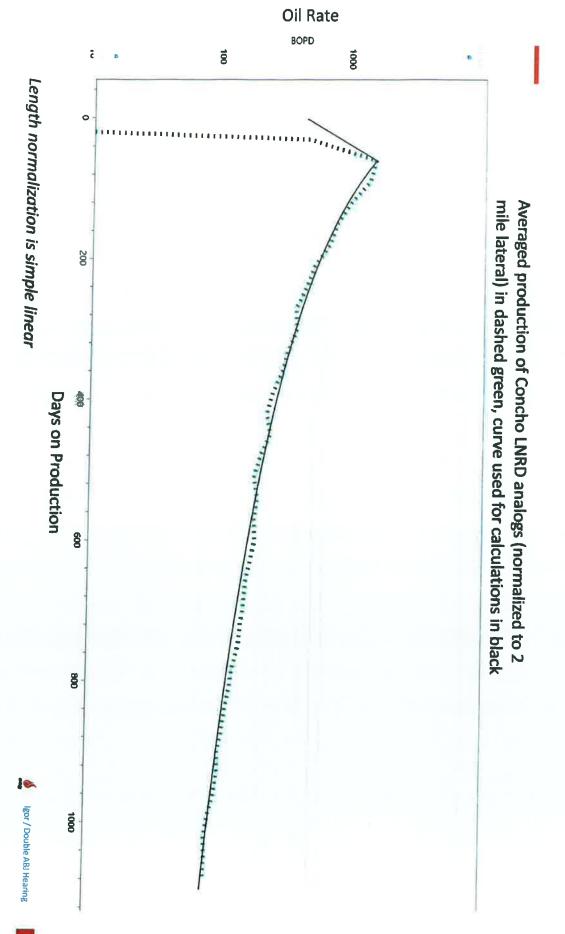
IGOR - W / 2 Sec 33 23 S 32 E

WFMP	TBSG	SBSG	FBSG	LNRD	2 m	Proposed Well Cost By Formation
<u>∞</u> .ω	8.1	7.8	7.7	7.6	2 mile laterals	EOG, \$MM
13.9	No plan to develop	11.8	No plan to develop	10.4		CXO, \$MM

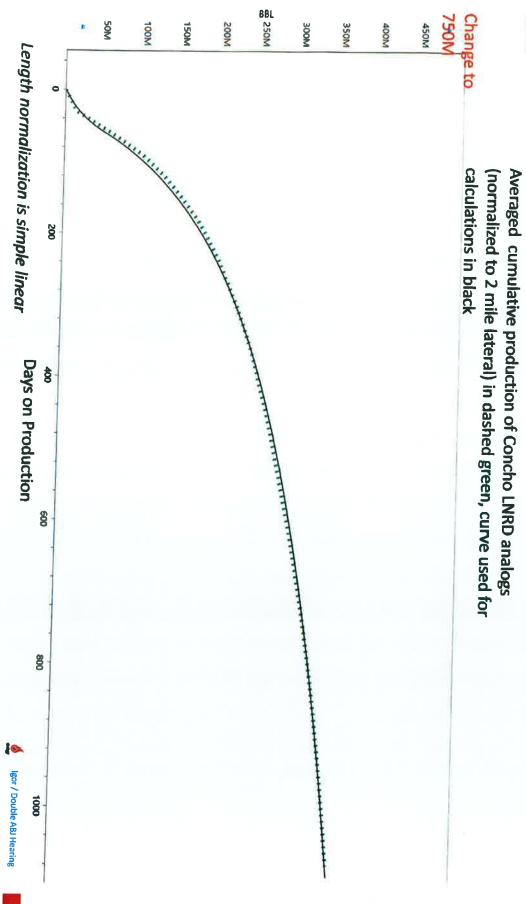
EOG costs adjusted from AFE exhibits to reflect artificial lift and facilities costs (which are on CXO

LNRD Analog Wells

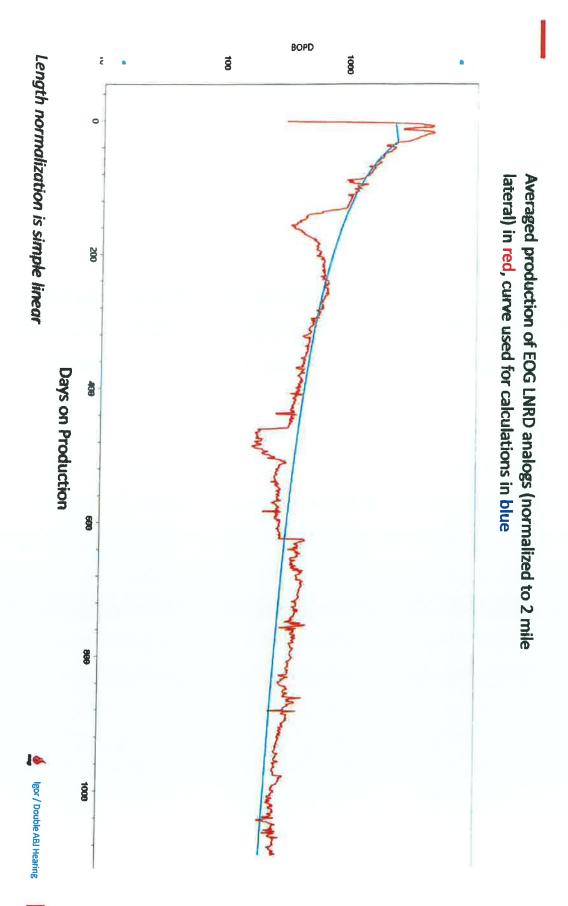
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		UWI (APINum) 30025437570000 30025452240000 30025437550000 30025467520000 30025467530000 30025467540000 30025467550000 30025467720000 30025462720000 30025462730000 30025462730000 30025462730000 30025462750000
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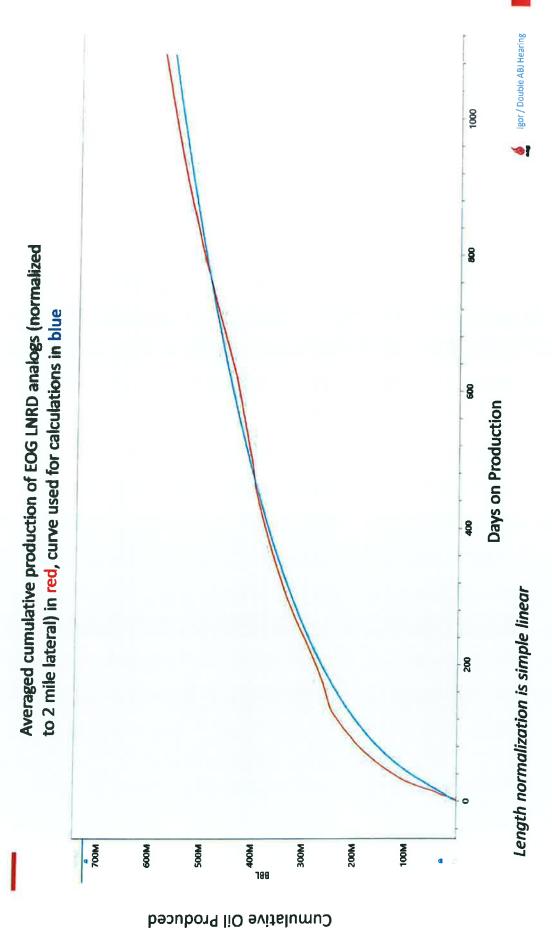


Cumulative Oil Produced

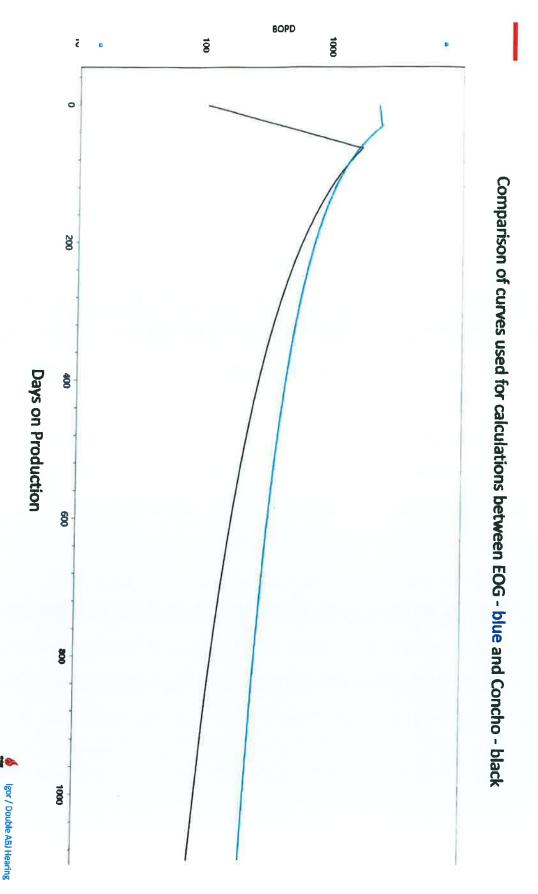




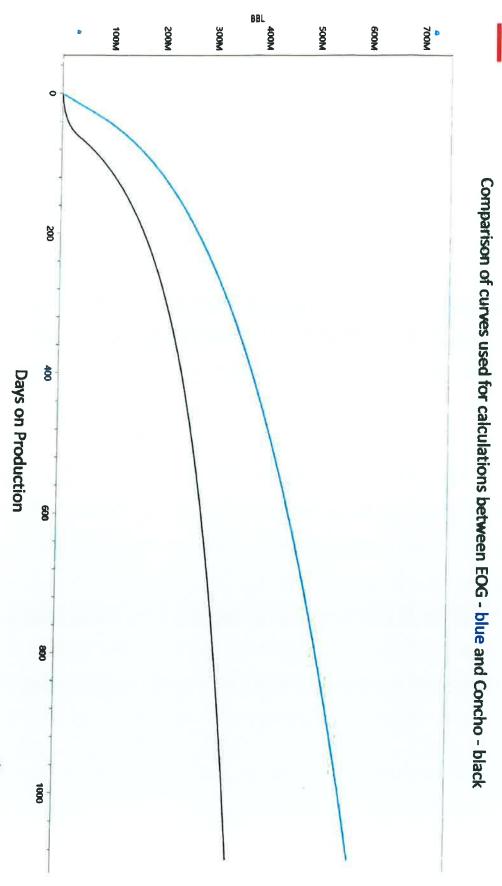












Igor / Double ABJ Hearing

Gross EOG LNRD (Avalon) Wells (5) vs Concho LNRD (Avalon) Wells (8) Per-well Economics

Name	Gross Total Capital \$MM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	BFIT Direct NPV 10 \$MM	BFIT Direct ROR %	BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE
IGOR LNRD 2MI EOG	\$ 7.6	2,500	\$24.9	448	\$ 3.03
IGOR LNRD 2MI CXO	\$10.4	976	\$2.7	28	\$11.34

LNRD (Avalon) Per-well Economics Attributable to W / 2 Si

BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE	BFIT Direct ROR %	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	Gross Sold BOE EUR MBO	Gross Total Capital \$MM	Name
	tal Economics	Proposed Wells Tot	W / 2 Sec 33 23 S 32 E LNRD (Avalon) Proposed Wells Tot	W / 2 Sec 33 23 S	
\$11.34	28	\$ 1.4	488	\$5.20	IGOR LNRD 2MI CXO
\$3.03	448	\$ 12.5	1,250	\$ 3.00	IGOR LNRD 2MI EOG
BFIT Direct BOE Finding Cost \$/BOE	BFIT Direct ROR %	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	Gross Sold BOE EUR MBO	Gross Total Capital \$MM	Name
Owners	S 32 E Interest Owners	10 W / 2 Sec 33 23	Monnes Attributable	Entire (water) is a well economics Attributable to W / 2 Sec 33 23	!

those wells is expected to result in \sim \$51,300,000 in lost value to interest owners and approximately 2,346,000 Over the LNRD (Avalon) wells, Concho drilling the W / 2 Sec 33 23 S 32 E Igor wells compared to EOG drilling fewer barrel of oil equivalents produced

IGOR LNRD 2MI CXO

¥1.6

3,904

\$11.2

28

\$11.34

\$3.03

6,250

\$62.5

488

\$19.0

IGOR LNRD 2MI EOG



FBSG Analog Wells

UWI (APINum)

Well Name

Concho has not proposed a plan to develop FBSG

Concho

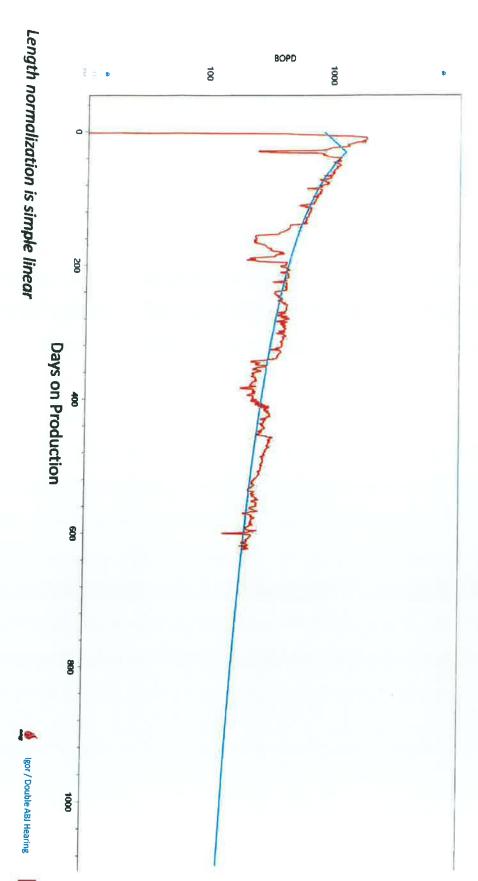
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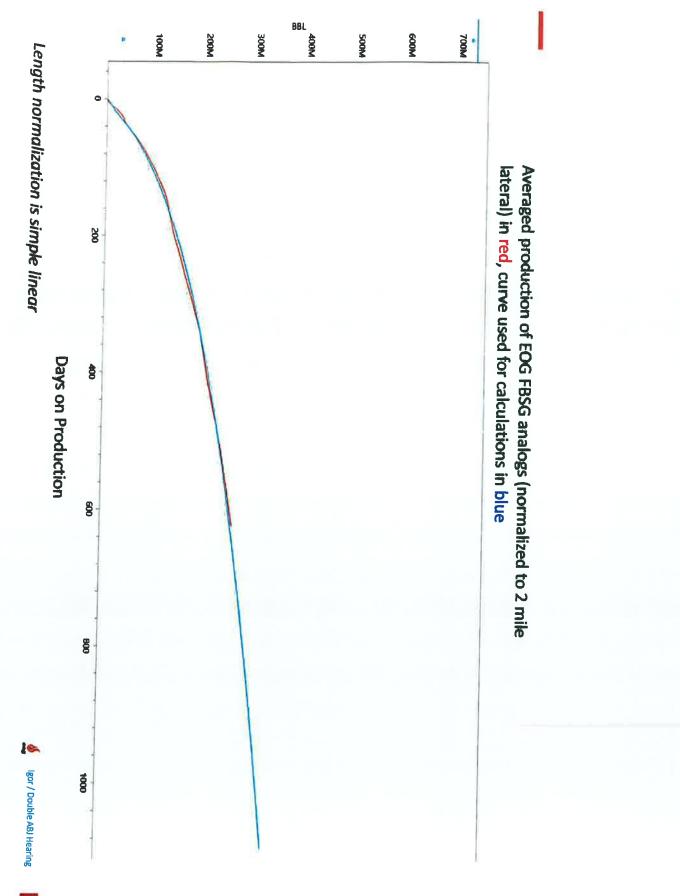
Well Name

Igor / Double ABJ Hearing



Averaged production of EOG FBSG analogs (normalized to 2 mile lateral) in red, curve used for calculations in blue

Cumulative Oil Produced



Gross EOG FBSG Wells (4) vs Concho Undeveloped Per-well Economics

Name Gross Total Capital \$MM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	BFIT Direct NPV 10 \$MM		BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE
IGOR FBSG 2MI EOG \$7.7	827	\$6 60 60	61	\$9.69
IGOR FBSG 2MI CXO		NA		

	FBSG Per-Well Economics Attributable to W / 2 Sec 33 23 S 32	ics Attributable to W	/ 2 Sec 33 23 S 32	! E Interest Owners	iers
Name	Gross Total Capital \$MM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	BFIT Direct NPV 10 \$MM	BFIT Direct ROR %	BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE
IGOR FBSG 2MI EOG	\$3.9	414	\$3.4	61	\$9,69
IGOR FBSG 2MI CXO			NIA		

W / 2 Sec 33 23 S 32 E FBSG Proposed Wells Total Economics

IGOR FBSG 2MI CXO	IGOR FBSG 2MI EOG	Name G
	\$15.4	Gross Total Capital \$MM
	1,656	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM
N/A	\$13.6	BFIT Direct NPV 10 \$MM
	61	BFIT Direct ROR %
	\$9.69	BFIT Direct BOE Finding Cost \$/BOE

expected to result in ~\$13,600,000 in lost value to interest owners and approximately 1,656,000 fewer barrel Over the FBSG, Concho lack of development compared to EOG's 4 W / 2 Sec 33 23 S 32 E Igor wells is of oil equivalents produced



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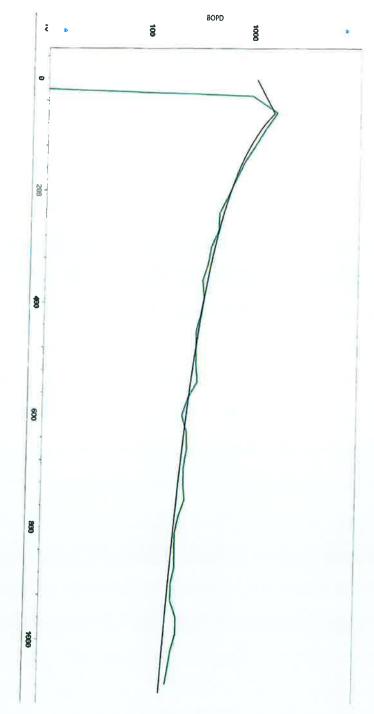
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BA 30 STATE COM	VIBA 30 STATE COM	Well Name	
#502 H	#501H	Well Number	

#503H

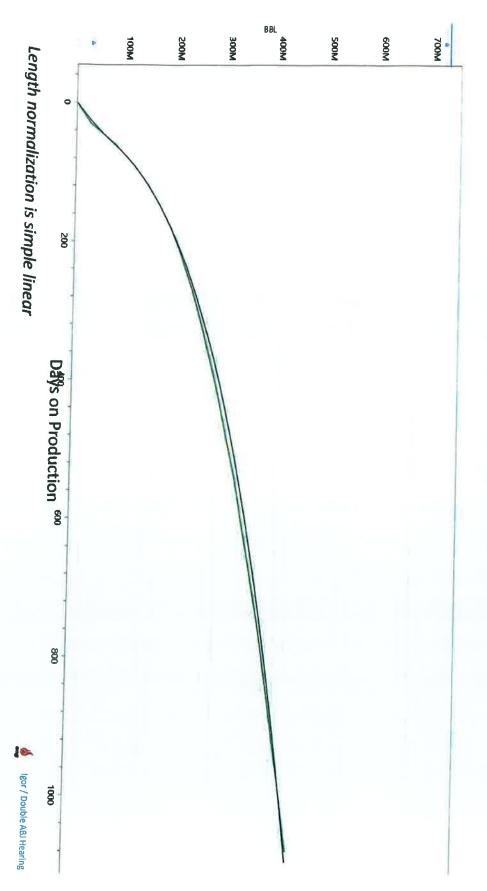




Days on Production

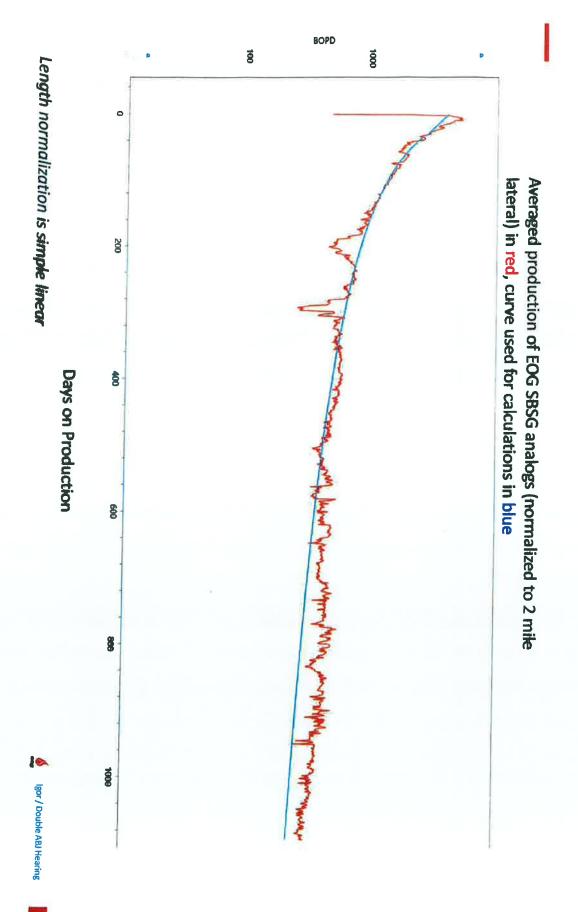


Cumulative Oil Produced

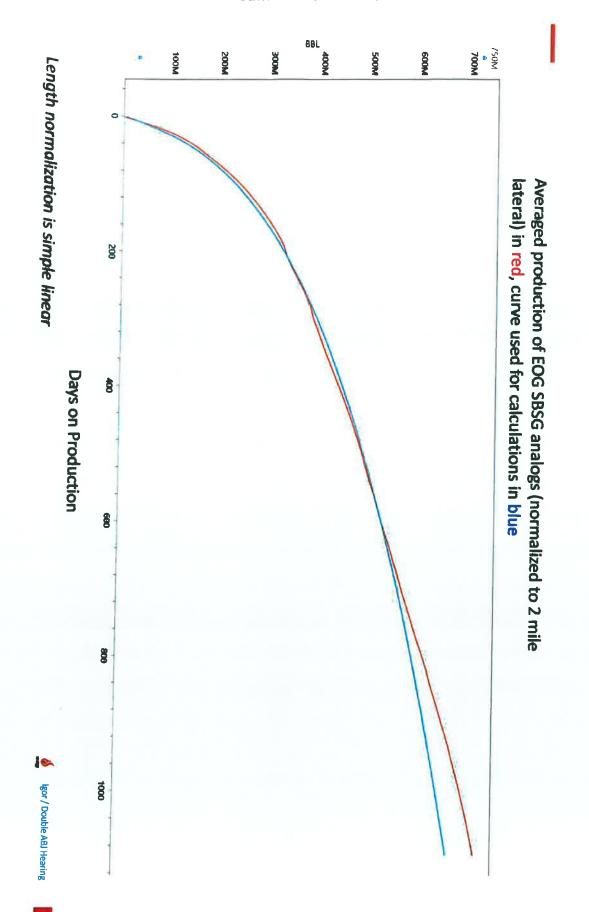


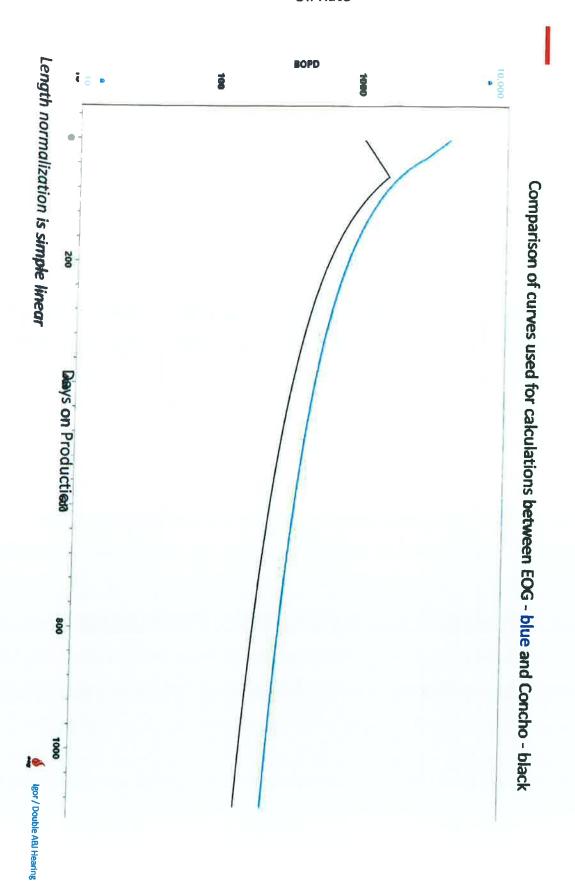
Averaged production of Concho SBSG analogs (normalized to 2 mile lateral) in green, curve used for calculations in black

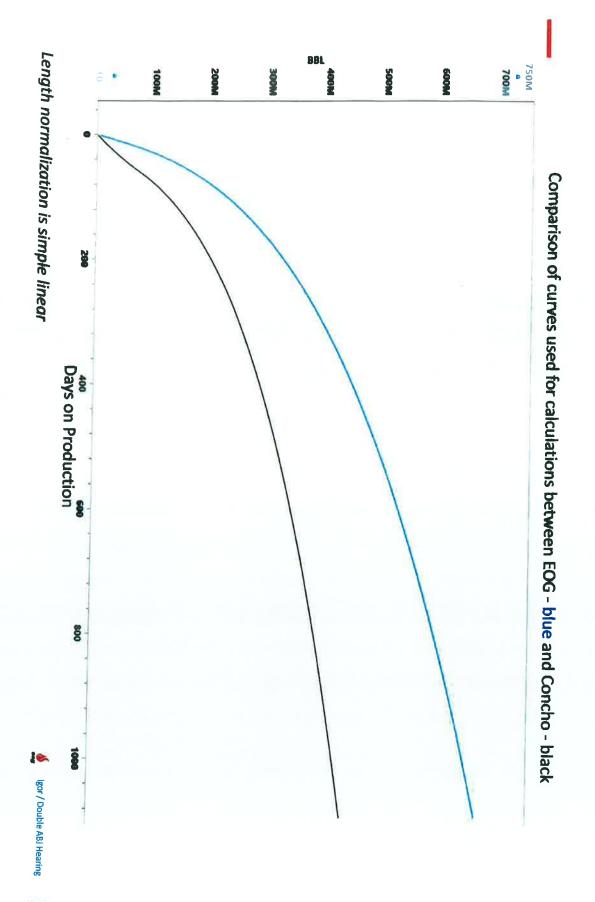




Cumulative Oil Produced







Gross EOG SBSG Wells (3) vs Concho SBSG Wells (1 and 1 depleted) Per-well Economics

Name	Gross Total Capital \$MM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$NM	BFIT Direct NPV 10 \$MM	BFIT Direct ROR %	BFIT Direct BOE Finding Cost \$/BOE
IGOR SBSG 2 CXO OD	\$11.80	886	\$3.17	21	\$14.34
IGOR SBSG 2 CXO	\$11.80	1,107	\$6.84	38	\$11.47
IGOR SBSG 2 EOG	\$7.78	1,803	\$20.82	515	\$4.64
	SBSG Per-well Economics Attributable to W / 2 Sec 33 23 S 32	cs Attributable to W $/$	2 Sec 33 23 S 32	E Interest Owners	ners
Name	Gross Total Capital SMM	Gross Sold BOE EUR MBOE	BFIT Direct NPV 10 \$MM	BFIT Direct ROR %	BFIT Direct BOE Finding Cost \$/BOE
IGOR SBSG 2 CXO OD	\$5.90	443	\$1.59	21	\$14.34
IGOR SBSG 2 CXO	\$5.90	554	\$3.42	38	\$11.47
IGOR SBSG 2 EOG	\$3.89	902	\$10.41	515	\$4.64
	W / 2 Sec 33 2	W / 2 Sec 33 23 S 32 E SBSG Proposed Wells Total Economics	ed Wells Total Eco	onomics	
Name	Gross Total Capital SMM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	BFIT Direct NPV 10 SMM	BFIT Direct ROR %	BFIT Direct BOE Finding Cost \$/BOE
IGOR SBSG 2 CXO OD	\$5.90	443	\$1.59	21	\$14.34
IGOR SBSG 2 CXO	\$5.90	554	\$3.42	38	\$11.47
IGOR SBSG 2 EOG	\$11.67	2705	\$ 31.23	515	\$4.64
<u>.</u>					

Over the SBSG wells, Concho drilling the W / 2 Sec 33 23 S 32 E Igor wells compared to EOG drilling those wells is expected to result in \sim \$26,220,000 in lost value to interest owners and approximately 1,708,000 fewer barrel of oil equivalents produced



TBSG Analog Wells

UWI (APINum)

Well Name

Concho has not proposed a plan to develop TBSG

Concho

Well Number

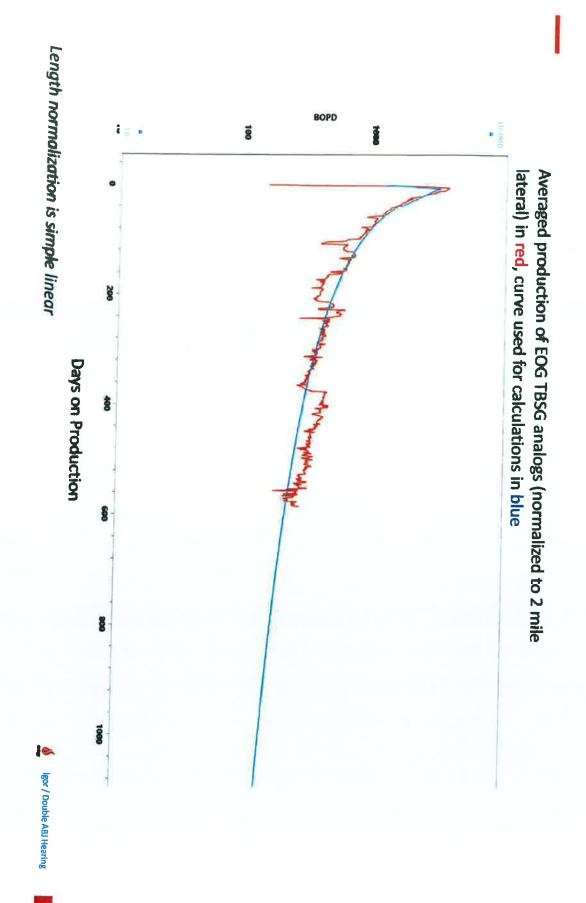
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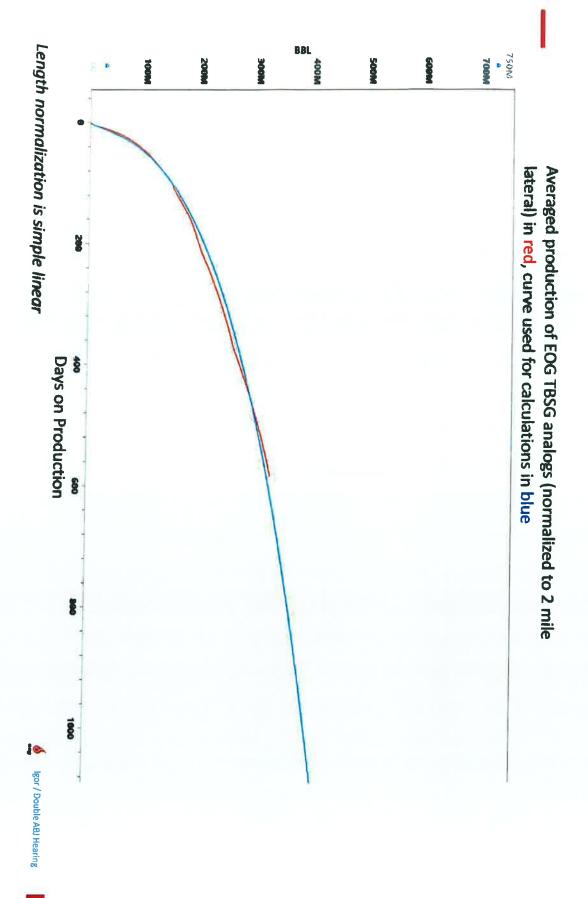
Well Name

Well Number #601H #602H #601H #602H

Igor / Double ABJ Hearing



Cumulative Oil Produced



Gross EOG TBSG Wells (3) vs Concho Undeveloped, Per-well Economics

Name	Gross Total Capital \$MM	Groes Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM		BFIT Direct ROR %	BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE
IGOR FBSG 2MI EOG	\$7.9	1,254	\$10.4	8	\$7.09
IGOR FBSG 2MI CXO			N/A		

TBSG Per-well Economics Attributable to W / 2 Sec 33 23 S 32 E Interest Owners

			/ ~ 300 33 23 3 32	r illest Owlers	lets
Name	Gross Total Capital \$MM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$NM	BFIT Direct NPV 10 \$MM		BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE
IGOR FBSG 2MI EOG	\$4.0	627	\$5.2	88	\$ 7.09
IGOR FBSG 2MI CXO			NA		

W / 2 Sec 33 23 S 32 E TBSG Proposed Wells Total Fo

			י אאפווט וטנשו בנ	conomics	
Name	Groes Total Capital SMM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	T Direct NPV 10 \$MM		BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE
IGOR FBSG 2MI EOG	\$11.9	1,881	\$ 15.6	96	\$7.09
IGOR FBSG 2MI CXO			N/A		

expected to result in ~\$15,600,000 in lost value to interest owners and approximately 1,881,000 fewer barrel Over the TBSG, Concho lack of development compared to EOG's 3 W / 2 Sec 33 23 S 32 E Igor wells is of oil equivalents produced



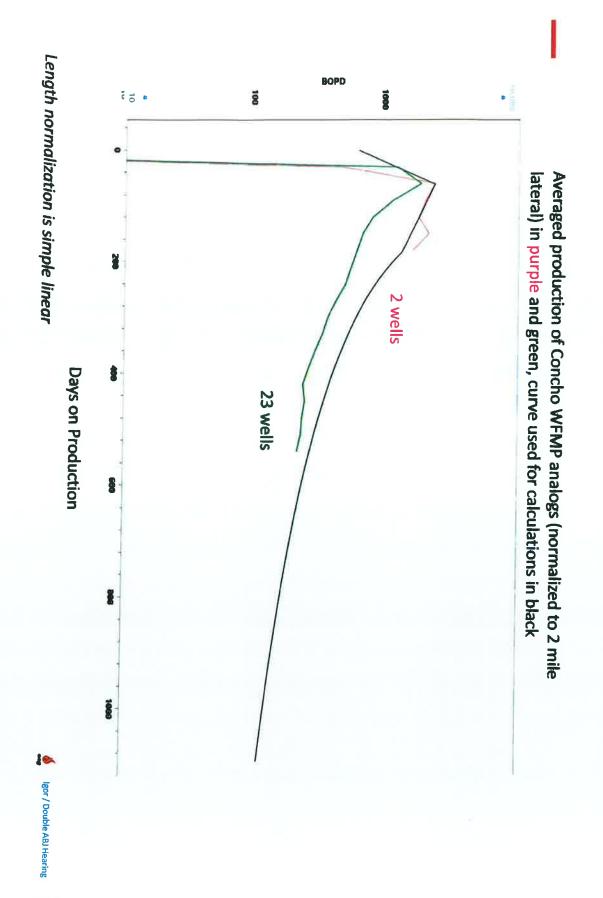
WFMP Analog Wells

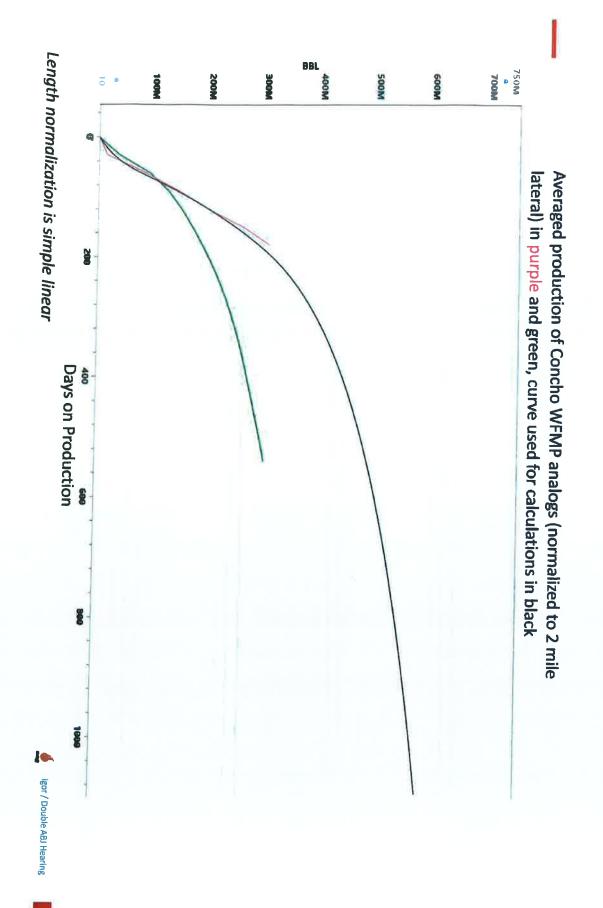
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Igor / Dou				
#704H #705H #707H #707H #701H #702H #702H #702H #703H	#707H #703H #704H #701H	#706H #707H #708H #708H #706H	#708H #701H #702H #703H #704H #702H #703H	Well Number #701H #702H #703H #704H #705H #706H

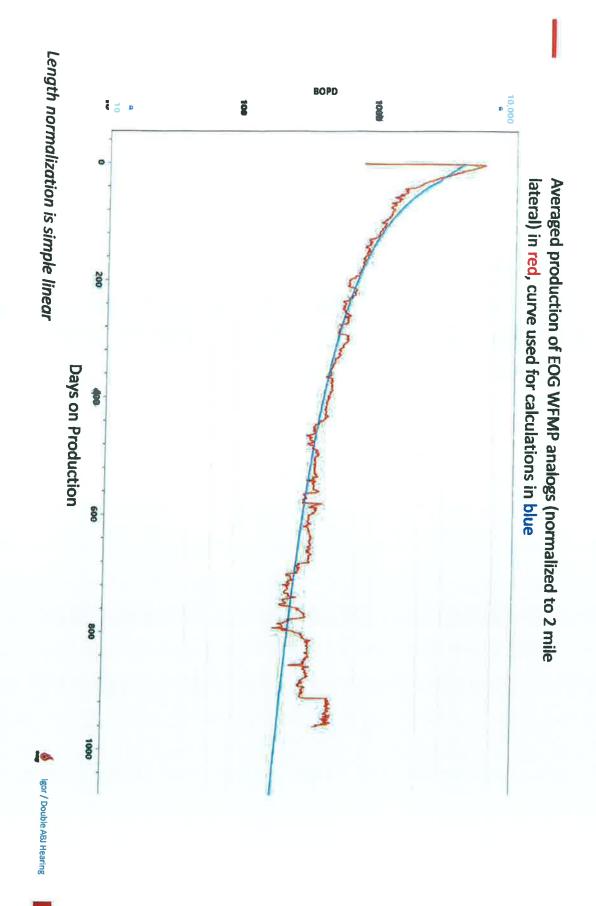
EOG	
Well Name	Well Number
RTTHROB 17 STATE	#701H
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RTTHROB 17 STATE	#703H
RTTHROB 17 STATE	#704H
RITHROB 17 STATE	#705H
RTTHROB 17 STATE	#706H

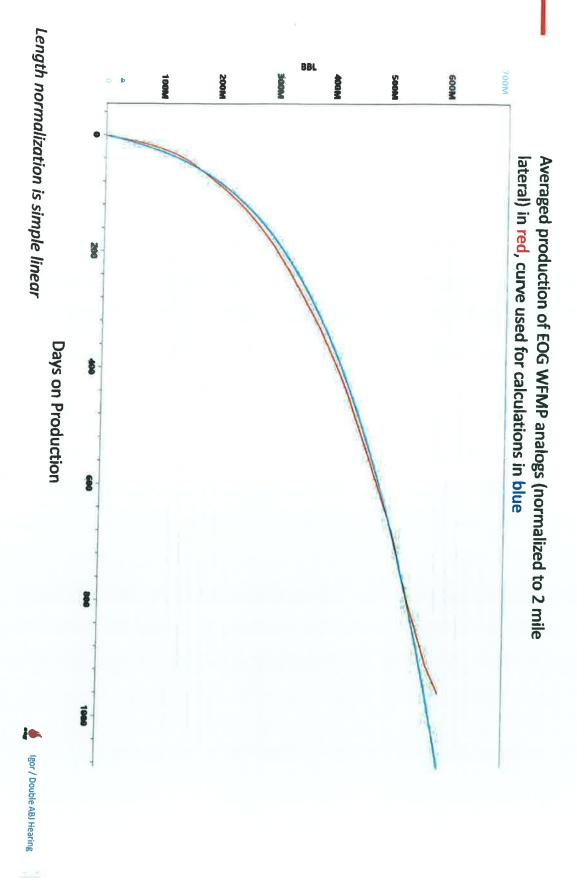
WFMP Analogs

- Concho only has 2 strict analogs to Igor / Double ABJ
- Brought online this year, not enough data to define late-time performance
- Search for wells expanded to include Concho wells in the same geologic interval
- Nearest wells used









Gross EOG WFMP Wells (5) vs Concho WFMP Wells (8) Per-well Economics

\$ 13.13	4	\$10.0	2,220	\$ 13.9	IGOR WFMP 2MI CXO
\$5.42	296	\$25.6	4,000	\$ 20.8	IGOR WFMP 2MI EOG
BFIT Direct BOE Finding Cost \$/BOE	BFIT Direct ROR % BFIT		Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	Gross Total Capital \$MM	Name
	nomics	ນsed Wells Total Ecor	W / 2 Sec 33 23 S 32 E WFMP Proposed Wells Total Economics	W / 2 Sec 33 ?	
\$13.13	44	\$ 2.0	555	\$6.9	IGOR WFMP 2MI CXO
\$5.42	296	\$6.4	800	\$4.2	IGOR WFMP 2MI EOG
BFIT Direct BOE Finding Cost \$/BOE	BFIT Direct ROR % BF		Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	Gross Total Capital \$MM	Name
v	Interest Owners	/ 2 Sec 33 23 S 32 E	nics Attributable to W	WFMP Per-well Economics Attributable to W / 2 Sec 33 23 S 32 E Interest Owners	
\$ 13.13	4	\$4.0	1,110	\$13.9	IGOR WFMP 2MI CXO
\$5.42	296	\$12.8	1,600	\$8.3	IGOR WFMP 2MI EOG
BFIT Direct BOE Finding Cost \$/BOE	BFIT Direct ROR % BFI1	BFIT Direct NPV 10 \$MM BF	Gross Sold BOE EUR MBOE	Gross Total Capital \$MM	Name
	1001101	1 - 1			

Over the WFMP wells, Concho drilling the W / 2 Sec 33 23 S 32 E Igor wells compared to EOG drilling those wells is expected to result in \sim \$15,600,000 in lost value to interest owners and approximately 1,780,000 fewer barrel of oil equivalents produced



Combined Impact of Concho Drilling Igor Section

All Parties, BOE	Owners, S	Over
Total Ultimate Recovery Impact Applicable to	to All Interest	

Over		All Parties, BOE
LNRD	(51,300,000)	(2,346,000)
FBSG	(13,600,000)	(1,656,000)
SBSG	(26,220,000)	(1,708,000)
TBSG	(15,600,000)	(1,881,000)
WFMP	(15,600,000)	(1,780,000)
Total	(122,320,000)	(9,371,000)



10

B>

Concho's expensive well costs impair the value of the leases

Double ABJ - SE / 4 Sec 9 24 S 32 E

WFMP	TBSG	SBSG	FBSG	LNRD	EOG 1.5 mile latera	Proposed Well Cost By Formation
6.8	6.6	6.4	6.3	6.1	EOG 1.5 mile laterals, Concho 2 mile laterals	EOG, \$MM
13.9	No plan to develop	11.8	No plan to develop	10.4		CXO, \$MM

AFEs) EOG costs adjusted from AFE exhibits to reflect artificial lift and facilities costs (which are on CXO

Gross EOG LNRD (Avalon) Wells (5) vs Concho LNRD (Avalon) Wells (7) Per-well Economics

D ABJ LNRD 2MI CXO \$10.40	D ABJ LNRD 1.5 MI EOG \$6.10	Name Gross Total Capital \$MM
621	1,875	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM
(\$2.17)	\$17.35	BFIT Direct NPV 10 \$MM
0	335	
\$18.77	\$3.41	BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE

LNRD (Avalon) Per-well Economics Attributable to SE / 4 Sec 9 24 S 33 E Inte

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Name	Gross Total Capital \$MM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	BFIT Direct NPV 10 \$MM	BFIT Direct ROR %	BFIT Direct BOE Finding Cost \$/BOE
D ABJ LNRD 1.5 MI EOG	\$2.03	625	\$ 5.78	335	\$3,41
D ABJ LNRD 2MI CXO	\$2.6	156	(\$0.54)	0	\$18.77

SE / 4 Sec 9 24 S 33 E LNRD (Avalon) Proposed Wells Total Economics

D ABJ LNRD 2MI CXO	D ABJ LNRD 1.5 MI EOG	Name Gross T
\$18.2	\$20.3	Gross Total Capital \$MM
1,092	3,125	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM
(\$3.78)	\$28.9	BFIT Direct NPV 10 \$MM
0	335	M BFIT Direct ROR %
\$18.77	\$3.41	BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE

drilling those wells is expected to result in \sim \$32,700,000 in lost value to interest owners and approximately Over the LNRD (Avalon) wells, Concho drilling the SE / 4 Sec 9 24 S 33 E Double ABJ wells compared to EOG 2,035,000 fewer barrel of oil equivalents produced





Gross EOG FBSG Wells (4) vs Concho Undeveloped Per-well Economics

45
Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM

FBSG Per-well Economics Attributable to SE / 4 Sec 9 24 S 33 E Interest Owners

D ABJ FBSG 2MI CXO	D ABJ FBSG 1.5 MI EOG	Name Gros
	\$2.10	Gross Total Capital \$MM
	207	Gross Sold BOE EUR MBOE
N/A	\$1.37	BFIT Direct NPV 10 \$MM
	å	BFIT Direct ROR %
	\$11.16	BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE

SE / 4 Sec 9 24 S 33 E FBSG Proposed Wells Total Economics

D ABJ FBSG 2MI CXO	D ABJ FBSG 1.5 MI EOG	Name	
	\$8.10	Gross Total Capital SMM	
z	825	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	
N/A	\$5.48	oct NPV 10 \$MM	
	45	BFIT Direct ROR %	
	\$11.16	BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE	

expected to result in ~\$5,480,000 in lost value to interest owners and approximately 825,000 fewer barrel of Over the FBSG, Concho lack of development compared to EOG's 4 SE / 4 Sec 9 24 S 33 E Double ABJ wells is oil equivalents produced





Gross EOG SBSG Wells (6) vs Concho SBSG Wells (3 and 1 depleted) Per-well Economics

Name	Gross Total Capital \$MM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	NPV 10 \$MM BFIT Direct ROR %	IOR % BFIT Direct BOE Finding Cost \$/BOE
D ABJ SBSG 2 CXO OD	\$11.80	883 \$1.76	76 15	\$15.12
D ABJ SBSG 2 CXO	\$11.80	1,103 \$5.08	08 28	\$1 2.10
D ABJ SBSG 1.5 EOG	\$6.40	1,349 \$14.06	.06 312	\$5.36
	SBSG Per-well Econom	SBSG Per-well Economics Attributable to SE / 4 Sec 9 24 S 33	24 S 33 E Interest Owners	Owners
Name	Gross Total Capital \$MM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM		IOR % BFIT Direct BOE Finding Cost \$/BOE
D ABJ SBSG 2 CXO OD	\$2.95	221 \$0.44	44 15	\$15.12
D ABJ SBSG 2 CXO	\$2.95	276 \$1.27	27 28	\$12.10
D ABJ SBSG 1.5 EOG	\$2.13	450 \$4.69	69 312	\$5.36
	SE / 4 Sec 9 2	SE / 4 Sec 9 24 S 33 E SBSG Proposed Wells Total Economics	Total Economics	
Name	Gross Total Capital \$MM	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	NPV 10 \$MM BFIT Direct ROR %	OR % BFIT Direct BOE Finding Cost \$/BOE
D ABJ SBSG 2 CXO OD	\$2.95	221 \$0.44	15	\$15.12
D ABJ SBSG 2 CXO	\$8.85	828 \$3.81	81 28	\$ 12.10
D ABJ SBSG 1.5 EOG	\$12.8	2,698 \$28.1	3.1 312	\$5.36
Over the SI	Over the SRSG wells Constanting			

those wells is expected to result in \sim \$23,850,000 in lost value to interest owners and approximately 1,649,000 Over the SBSG wells, Concho drilling the SE / 4 Sec 9 24 S 33 E Double ABJ wells compared to EOG drilling fewer barrel of oil equivalents produced



Gross EOG TBSG Wells (3) vs Concho Undeveloped, Per-well Economics

Name	Gross Total Capital \$MM	Gross Sold BOE EUR MBOE BFI	BFIT Direct NPV 10 \$MM	BFIT Direct ROR %	BFIT Direct BOE Finding Cost \$/BOI
D ABJ TBSG 1.5 MI EOG	\$6.60	942	\$7.91	88	\$7.54
D ABJ TBSG 2MI CXO			NA		

TBSG Per-well Economics Attributable to SE / 4 Sec 9 24 S 33 E Interest Owners

D ABJ TBSG 2MI CXO	D ABJ TBSG 1.5 MI EOG	Name
	\$2.20	Gross Total Capital \$MM
	314	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM
N/A	\$2.64	BFIT Direct NPV 10 \$MM
	8 4	BFIT Direct ROR %
	\$7.54	BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE

SE / 4 Sec 9 24 S 33 E TBSG Proposed Wells Total Economics

D ABJ TBSG 2MI CXO	D ABJ TBSG 1.5 MI EOG	Name Gross
	\$6.60	Gross Total Capital \$MM
	942	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM
N/A	\$7.91	BFIT Direct NPV 10 \$MM
	84	BFIT Direct ROR %
	\$7.54	BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE

expected to result in ~\$7,900,000 in lost value to interest owners and approximately 942,000 fewer barrel of Over the TBSG, Concho lack of development compared to EOG's 3 SE / 4 Sec 9 24 S 33 E Double ABJ wells is oil equivalents produced



Gross EOG WMFP Wells (3) vs Concho WFMP Wells (3), Per-well Economics

D ABJ WFMP 2MI CXO	D ABJ WFMP 1.5 MI EOG	Name
\$13.90	\$6.80	Gross Total Capital \$MM
1,173 \$4.32	1,244 \$11.45	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM
39	264	MM BFIT Direct ROR %
\$13.06	\$6.00	BFIT Direct ROR % BFIT Direct BOE Finding Cost \$/BOE

WFMP Per-well Economics Attributable to SE / 4 Sec 9 24 S 33 E Interest Owners

\$13.06	ç				
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30	\$3.24	880	\$10.4	D ABJ WFMP 2MI CXO
\$6.00	264	\$11,45	1,244	\$6.80	D ABJ WFMP 1.5 MI EOG
BFIT Direct BOE Finding Cost \$/BOE	BFIT Direct ROR %	Gross Sold BOE EUR MBOE BFIT Direct NPV 10 \$MM	Gross Sold BOE EUR ME	Gross Total Capital \$MM	Name
	Economics	posed Wells Total Ec	SE / 4 Sec 9 24 S 33 E WFMP Proposed Wells Total	SE / 4 Sec 9 2	
\$13.06	39	\$1.08	293	\$3.48	D ABJ WFMP 2MI CXO
\$6.00	264	\$3.81	415	\$2.27	D ABJ WFMP 1.5 MI EOG
BFIT Direct BOE Finding Cost \$/BOE	BFIT Direct ROR %	OE BFIT Direct NPV 10 \$MM	Gross Sold BOE EUR MBOE	Gross Total Capital \$MM	Name
iers	E Interest Own) 3E / 4 3EC 9 24 3 33	ייווכא אינו וממנסמוב נכ	The second man and second managers of the second se	

drilling those wells is expected to result in ~\$8,210,000 in lost value to interest owners and approximately Over the WFMP formation, Concho drilling the SE / 4 Sec 9 24 S 33 E Double ABJ wells compared to EOG 365,000 fewer barrel of oil equivalents produced



Combined Impact of Concho Drilling Double ABJ Section

(5,798,000)	(78,140,000)	❖	Total
(365,000)	(8,210,000)	ψ.	WFMP
(924,000)	(7,900,000)	₩	TBSG
(1,649,000)	(23,850,000)	↔	SBSG
(825,000)	(5,480,000)	₩	FBSG
(2,035,000)	(32,700,000)	₩	LNRD
Total Ultimate Recovery Impact Applicable to All Parties, BOE	Value Change Applicable to All Interest Owners	Value Change	Over

Combined Impact of Concho Drilling Both EOG Sections

Value Change Applicable to All Interest
Owners

Total Ultimate Recovery Impact Applicable to All Parties, BOE

(200,460,000)

Total

(15,170,000)

100

lgor / Double ABJ Hearing