

Findings and Decision of the Director
of the Division of Oil and Gas

APPROVING THE 8TH EXPANSION OF
THE KUPARUK PARTICIPATING AREA
WITHIN THE KUPARUK RIVER UNIT

Under a Delegation of Authority
from the Commissioner of the State Of Alaska
Department of Natural Resources

September 18, 2002

I. INTRODUCTION, BACKGROUND, AND DECISION SUMMARY

Phillips Alaska, Inc. (Phillips), as Kuparuk River Unit Operator, and on behalf of the Working Interest Owners (WIOs) in the Kuparuk River Unit (KRU), applied to expand the Kuparuk Participating Area (KPA) within the current boundary of the KRU. Phillips' application, if approved, would result in the eighth expansion of the KPA, and would add approximately 320 acres around KRU Well 2T-39, which at the time of application was producing approximately 2200 bopd from the Kuparuk River Formation on a tract basis. Phillips submitted geologic and well data that justifies the expansion of the KPA. The data indicate that the proposed expansion acreage is capable of producing or contributing to the production of hydrocarbons in paying quantities.

The State of Alaska Department of Natural Resources, Division of Oil and Gas ("division") approves Phillips' application to expand the KPA. The KPA expansion includes the area proposed by Phillips because that area has been shown to be "reasonably known to be underlain by hydrocarbons and known or reasonably estimated...to be capable of producing or contributing to production of hydrocarbons in paying quantities." 11 AAC 83.351(a). The division also approves the revised tract allocation schedule, Exhibit C to the KRU Agreement, for the expanded KPA. The tract allocation schedule "equitably allocates production and costs among the leases" in the KPA. The effective date of the eighth revision to the KPA and the revised Exhibit C is October 1, 2002.

II. APPLICATION FOR THE EIGHTH REVISION OF THE KUPARUK PARTICIPATING AREA

Phillips submitted the eighth KPA expansion application, dated March 27, 2002, under 11 AAC 83.351 and Section 6.2 of the KRU Agreement. Phillips applied to add a portion of one state oil and gas lease, ADL 25568 (tract 45), totaling approximately 320 acres, to the KPA. The WIOs in ADL 25568 are Phillips, BPXA, Unocal, ExxonMobil and Chevron.

The proposed KPA expansion acreage encompasses the Kuparuk Reservoir within the Kuparuk Formation, which is capable of producing or contributing to production of hydrocarbons in paying quantities. The legal description of the portion of the lease proposed for the eighth KPA expansion, the revised tract participation schedule for the leases in the KPA, and a map depicting the proposed eighth KPA expansion area are Attachment A, Exhibit C, and Attachment B, respectively, to the application.

There is geologic and engineering evidence to support the expansion of the KPA to develop the Kuparuk Reservoir within the KRU under a unified plan of development. The expansion acreage is within the KRU, but currently outside the KPA. Phillips drilled and completed the Well 2T-39 as a Kuparuk oil pool producer well in the 4th quarter of 2001.

On September 17, 2001, Phillips requested the division's approval to drill and operate 2T-39 as an oil producer on a tract basis. The division approved the 2T-39 tract operation on October 15, 2001, and production came on-line on March 28, 2002. As part of the tract operation approval and by December 31, 2001, Phillips was to request an expansion of the KPA that would include the location of the 2T-39 well. An extension to request the expansion was submitted by Phillips to the division on December 17, 2001, and approved by the division until March 4, 2002. An additional extension

was submitted by Phillips on March 11, 2002 and approved by the division until April 1, 2002. The production data from the 2T-39 tract operation demonstrate that the proposed eighth expansion acreage is capable of producing or contributing to production in paying quantities.

Phillips and the division agree that the effective date for the proposed eighth KPA expansion and the revised tract participation schedule for the KPA, Exhibit C to the KRU Agreement, will be October 1, 2002.

III. DISCUSSION OF THE PARTICIPATING AREA DECISION CRITERIA

The commissioner may approve expansion of a participating area (PA) if it is determined that expansion is “necessary or advisable to protect the public interest.” AS 38.05.180(p), 11 AAC 83.303(c) and 11 AAC 83.351(c). Approval of Phillips’ application must be based on the criteria in 11 AAC 83.303(a) and (b).

Under 11 AAC 83.303(a), a PA expansion will be approved if the commissioner finds that the expansion is necessary or advisable to protect the public interest. To make such a finding, the commissioner must determine that the proposed PA expansion will: (1) conserve natural resources; (2) prevent economic and physical waste; and (3) protect all parties of interest, including the state.

In evaluating these criteria, the commissioner must consider: (1) the environmental costs and benefits; (2) the geological and engineering characteristics of the potential hydrocarbon accumulation or reservoir proposed for inclusion in the PA; (3) prior exploration activities in the proposed expansion area; (4) the applicant’s plans for exploration or development of the proposed expansion area; (5) the economic costs and benefits to the state; and (6) any other relevant factors (including mitigation measures) the commissioner determines necessary or advisable to protect the public interest. 11 AAC 83.303(b).

A PA may include only land reasonably known to be underlain by hydrocarbons and known or reasonably estimated through use of geological, geophysical, or engineering data to be capable of producing or contributing to the production of hydrocarbons in paying quantities. 11 AAC 83.351(a) “Paying Quantities” means:

Quantities sufficient to yield a return in excess of operating, costs, even if drilling and equipment costs may never be repaid and the undertaking as a whole may ultimately result in a loss; quantities are sufficient to yield a return in excess of operating costs unless those quantities, not considering the costs of transportation and marketing, will produce sufficient revenue to induce a prudent operator to produce those quantities. 11 AAC 83.395(4)

A. 11 AAC 83.303(a) criteria discussion

1) Conservation of Natural Resources

The formation of oil and gas units, as well as the creation and expansion of PAs within units, generally conserves hydrocarbons; coordinated development of leases held by diverse parties maximizes total hydrocarbon recovery and minimizes waste. Expansion of the existing KPA to include the new acreage will provide for more efficient, integrated development of the Kuparuk reservoir within the KRU. A comprehensive operating agreement and plan of development

governing the expanded area will help avoid duplicative development efforts on and beneath the surface.

Producing hydrocarbon liquids from the expansion area through the existing KRU production and processing facilities reduces the incremental environmental impact of the additional production. The hydrocarbon resources of the expansion area can be accessed from a preexisting drill pad, and processed through preexisting facilities and infrastructure. Expanding the KPA will maximize oil and gas recovery, while minimizing negative impacts on all other natural resources.

2) Prevention of Economic and Physical Waste

Generally, the formation and expansion of a PA facilitates the equitable division of costs and allocation of the hydrocarbon shares, and provides for a diligent development plan, which maximizes hydrocarbon recovery from a reservoir. Further, the creation and subsequent expansion of a PA which enables both facility sharing opportunities and adoption of a unified reservoir management strategy may allow economically marginal hydrocarbon accumulations to be developed that otherwise might not be.

Expanding the KPA improves the likelihood of more complete development of a reservoir with variable productivity across adjoining leases. Using the existing KPA infrastructure and facilities eliminates the need to construct stand-alone facilities to process the additional volume of recoverable hydrocarbons from the expansion area. The division encourages the shared use of major processing facilities to minimize any additional surface impacts and costs. The division allows commingled production through the existing KRU facilities and approved a well test-based production allocation methodology for current and future reservoirs sharing those facilities. The methodology is subject to periodic review and reconsideration to assure that the state's royalty, tax and other interests are protected.

Further, facility consolidation saves capital and promotes better reservoir management through pressure maintenance and enhanced recovery procedures. In combination, these factors allow the Kuparuk Reservoir to be developed and produced in the interest of all parties, including the State. Expanding the KPA to include the leases that contain productive Kuparuk Formation reservoirs allows these expansion areas to access existing drill pads and unit facilities and prevents economic and physical waste.

3) Protection of All Parties

Because hydrocarbon recovery will be maximized and additional production-based revenue will be earned from the additional KPA production, the state's economic interest is promoted. Diligent exploration and development under a single approved unit plan without the complications of competing leasehold interests promote the state's interest. The expansion of the KPA promotes efficient evaluation and development of the state's resources, yet minimizes impacts to the area's cultural, biological, and environmental resources. Operating under the KRU agreement provides for accurate reporting and record keeping, royalty settlement, in-kind taking, and emergency storage of oil. These all protect the state's interest.

The proposed expansion of the KPA protects the economic interests of all working interest owners and the royalty owner. Combining interests and operating under the terms of a unit agreement and unit operation agreement assures each individual working interest owner an equitable allocation of costs and revenues commensurate with the resources of its lease(s).

B. 11 AAC 83.303(b) criteria discussion

1) The Environmental Costs and Benefits

As discussed above in section III (A), the sharing of the existing facilities eliminates duplication and minimizes the surface area affected by additional development. The well in the proposed expansion area has been developed from an existing drill pad and KRU infrastructure. All future development of the expansion area will take place from the existing drill pad and infrastructure. No significant additional impacts to near shore and onshore habitat or biological resources are anticipated because of the additional Kuparuk production from an expanded KPA.

2) The Geological and Engineering Characteristics, and Previous Exploration of the Proposed Expansion area

KRU Well 2T-39 was drilled within the proposed 320-acre expansion area. Phillips provided confidential and non-confidential technical data in support of the proposed expansion. Phillips submitted the following geological, geophysical, and engineering data in support of the KPA expansion application:

- 1) Kuparuk River Unit Type Log
- 2) Kuparuk 'A' Sands Stratigraphic Cross-section
- 3) Kuparuk 'A' Net Pay/Sand Bodies Map
- 4) Kuparuk A2, A3, and C-4 Net Pay Isochore Maps
- 5) Top Kuparuk Depth Structure Map
- 6) 2T-39 Stratigraphic Cross-section
- 7) NW/SE Seismic line through the well location.
- 8) Engineering data provided was a week-long test in December of 2001 (12/26/01 through 1/1/02) using a temporary flowline through the existing Kuparuk test separator at DS-2T.

More than 850 production and injection wells have been drilled in this field. The field has no natural gas cap, and solution gas drive is the primary recovery mechanism. Water and gas injection programs have been implemented to enhance recovery. The west margin of the oil field accumulation is controlled by truncation that is not easily defined by seismic and therefore is not definitively established.

KRU 2T-39 came on line on March 8, 2002, as an oil producer in the western part of the Kuparuk River reservoir. Its bottomhole location on Tract 45, while inside the KRU, is outside the existing KPA. The proposed KPA expansion would incorporate this well's bottomhole location. By use of log analysis and standard net pay parameters for the Kuparuk reservoir, Phillips determined that 2T-39 contained 21' and 7' of total pay for the A & C sands, respectively. As of the time of application the well was producing approximately 2200 bopd.

The geologic and engineering data submitted with the application along with the incremental contribution to production after water injection startup reasonably demonstrates that the proposed KPA expansion area is capable of producing or contributing to the production of hydrocarbons in paying quantities.

3) The Applicant's Plan for Exploration or Development of the Expanded Participating Area

The proposed expansion area is 320 acres. The 2T-39 well is currently producing oil from the 320-acre expansion area and no additional wells are planned for this area. However, the expansion area will be included in the KPA plan of development and will continue to be evaluated for future development opportunities.

4) The Economic Costs and Benefits to the State

Approval of the proposed KPA expansion will provide economic benefits to the state by including the area in the Kuparuk plan of development, which proposes to maximize the physical and economic recovery of hydrocarbons from the Kuparuk reservoir. Maximum hydrocarbon recovery will enhance the state's long-term royalty and tax revenues.

Any additional administrative burdens associated with the proposed revised KPA are far outweighed by the additional royalty and tax benefits derived from the expansion area production.

5) Other Relevant Factors

Pursuant to 11 AAC 83.351 and 11 AAC 83.371, Phillips submitted with the application an allocation of production and cost for the leases in the proposed KPA expansion area (Attachment C to the Findings and Decision and revised Exhibit C to the KRU Agreement). The proposed tract allocation schedule distributes working interest equity amount the leases according to recoverable reserves. The basis of the tract allocation schedule – recoverable reserves – is consistent with previous expansions of the KPA. The division finds Phillips' revised tract allocation schedule acceptable for allocating production and costs among the leases in the expanded KPA.

Phillips and the division agree that the effective date of the eighth KPA expansion and the revised Exhibit C to the KRU Agreement will be October 1, 2002.

IV. FINDINGS AND DECISION

Based on the facts discussed in this document and the administrative record, I make findings and impose conditions as follows:

- 1) The proposed expansion acreage is underlain by hydrocarbons and known and reasonably estimated to be capable of production or contributing to production in sufficient quantities to justify the expansion of the KPA within the KRU.
- 2) The geological and engineering data justify the inclusion of the proposed tract within the

KPA. Under the terms of the applicable regulations governing formation and operation of oil and gas units (11 AAC 83.301 – 11 AAC 83.395) and the terms and conditions under which these lands were leased from the state, T11N, R8E, UM, W ½ of Sec. 3.

- 3) The KPA expansion provides for the equitable division of costs and an equitable allocation of produces hydrocarbons, and under a development plan designed to maximize physical and economic recovery from the reservoirs within the expanded and approved participating areas. The allocations of production and costs for the tracts within the KPA (revised Exhibit C), Attachment C to this Findings and Decision, are approved.
- 4) The production of KPA Hydrocarbon liquids through the existing production and processing facilities within the KRU reduces the environmental impact of the additional production. Using existing facilities will avoid unnecessary duplication of development efforts on and beneath the surface.
- 5) The KRU Owners plan diligent exploration and delineation of the reservoirs underlying the KRU under approved plan of development and operation.
- 6) Approval of the expansion of the KPA, and the revised Exhibit C to the KRU agreement (Attachment C to this Findings and Decision), are effective October 1, 2002.

For these reasons and subject to the conditions and limitations noted, I hereby approve the Eighth Revision of the Kuparuk Participating Area within the Kuparuk River Unit.

Mark D Myers
Division of Oil and Gas

Date

Attachments:

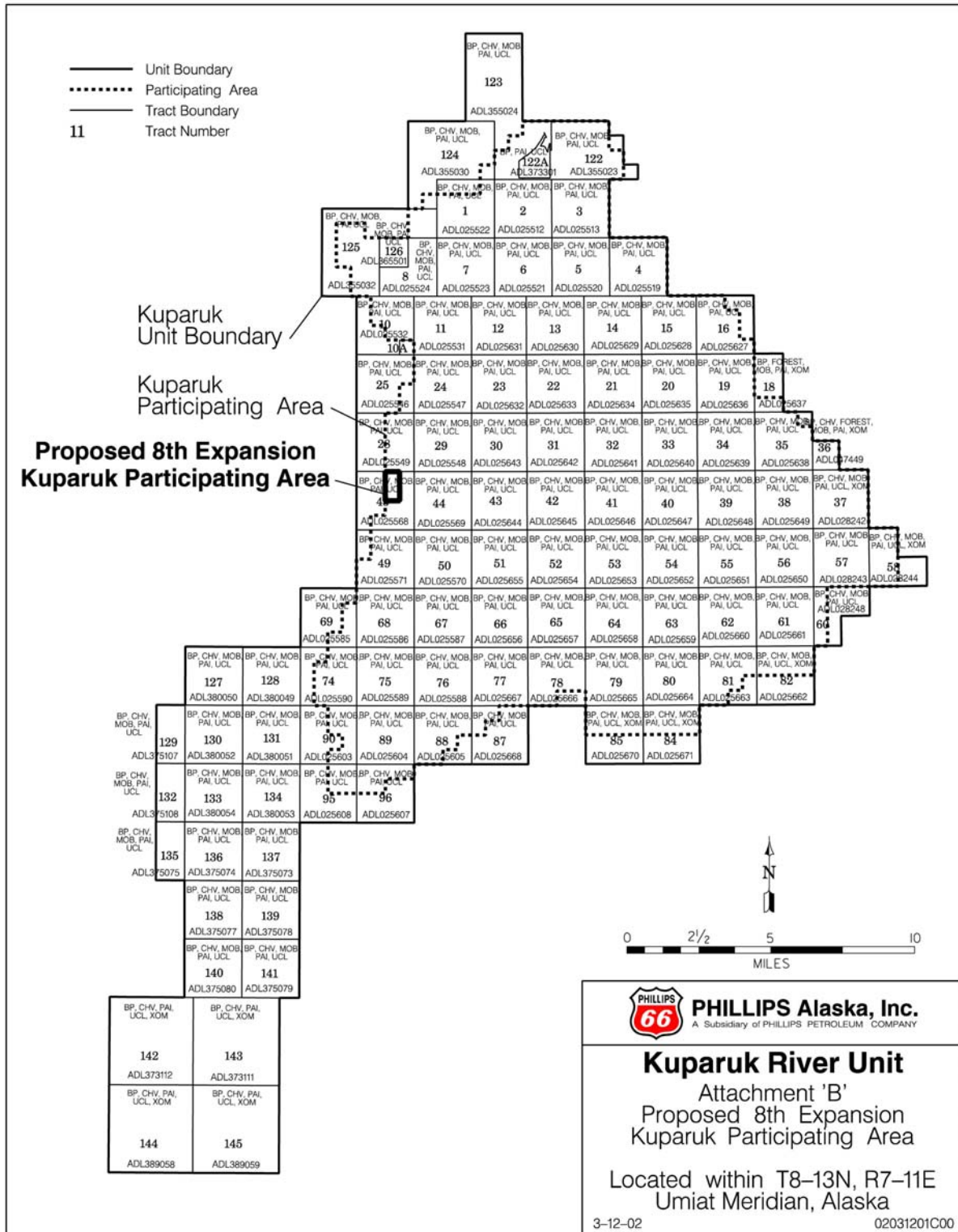
- 1) Eighth KPA Revision Tracts
- 2) KRU proposed 8th KPA expansion map
- 3) Revised Exhibit C to the KRU Agreement (KPA Tract Allocation Schedule)

Attachment 1

8th KPA Expansion Acreage Legal Description

<u>Tract</u>	<u>ADL No.</u>	<u>Description</u>	<u>Owners</u>
45	25568	W ½ of Sec. 3 T11N, R8E, UM	PAI
			55.293767%
			BPXA 39.282233%
			UNOCAL 04.95060%
			EXXONMOBIL 00.364800%
			CHEVRON 00.108600%

Attachment 2



Attachment 3

Tract No.	Legal Description	ADL No.	Tract Participation	Cost I Participation	Cost II Participation
1	T13N-R8E-UM Sec. 13: NE 1/4, S 1/2 Sec. 14: S 1/2 Sec. 23: All Sec. 24: All	25522	0.470773	0.972034	0.975017
2	T13N-R9E-UM Sec. 17: All Sec. 18: All Sec. 19: All Sec. 20: All	25512	1.476446	1.674421	1.679560
3	T13N-R9E-UM Sec. 15: All Sec. 16: All Sec. 21: All Sec. 22: All	25513	1.526594	1.699236	1.704451
4	T13N-R9E-UM Sec. 25: All Sec. 26: All Sec. 35: All Sec. 36: All	25519	1.193969	1.556949	1.561727
5	T13N-R9E-UM Sec. 27: All Sec. 28: All Sec. 33: All Sec. 34: All	25520	1.463549	1.677533	1.682682
6	T13N-R9E-UM Sec. 29: All Sec. 30: All Sec. 31: All Sec. 32: All	25521	1.337876	1.631591	1.636598

7	T13N-R8E-UM Sec. 25: All Sec. 26: All Sec. 35: All Sec. 36: All	25523	1.284666	1.615681	1.620640
8	T13N-R8E-UM Sec. 27: All Sec. 33: All Sec. 34: All	25524	0.607308	1.082089	1.085410
10	T12N-R8E-UM Sec. 3: All Sec. 4: E 1/2 Sec. 10: N 1/2	25532	0.365722	0.438339	0.438339
11	T12N-R8E-UM Sec. 1: All Sec. 2: All Sec. 11: All Sec. 12: All	25531	1.378533	1.274005	1.274005
12	T12N-R9E-UM Sec. 5: All Sec. 6: All Sec. 7: All Sec. 8: All	25631	1.203249	1.531150	1.535848
13	T12N-R9E-UM Sec. 3: All Sec. 4: All Sec. 9: All Sec. 10: All	25630	1.651786	1.742407	1.747755
14	T12N-R9E-UM Sec. 1: All Sec. 2: All Sec. 11: All Sec. 12: All	25629	1.493280	1.687600	1.692779
15	T12N-R10E-UM Sec. 5: All Sec. 6: All Sec. 7: All Sec. 8: All	25628	0.810677	1.395437	1.399719

16	T12N-R10E-UM Sec. 3: SW 1/4 Sec. 4: All Sec. 9: All Sec. 10: NW 1/4, S 1/2	25627	0.118634	0.630224	0.632158
18	T12N-R10E-UM Sec. 23: S 1/2	25637	0.000009	0.111815	0.112158
19	T12N-R10E-UM Sec. 15: All Sec. 16: All Sec. 21: All Sec. 22: All	25636	0.365132	1.290328	1.294288
20	T12N-R10E-UM Sec. 17: All Sec. 18: All Sec. 19: All Sec. 20: All	25635	1.688926	1.704061	1.709291
21	T12N-R9E-UM Sec. 13: All Sec. 14: All Sec. 23: All Sec. 24: All	25634	1.719120	1.765795	1.771213
22	T12N-R9E-UM Sec. 15: All Sec. 16: All Sec. 21: All Sec. 22: All	25633	1.919047	1.834926	1.840558
23	T12N-R9E-UM Sec. 17: All Sec. 18: All Sec. 19: All Sec. 20: All	25632	2.764795	2.076018	2.082389
24	T12N-R8E-UM Sec. 13: All Sec. 14: All Sec. 23: All Sec. 24: All	25547	1.126597	1.192939	1.192939

25	T12N-R8E-UM Sec. 22: E 1/2	25546	0.009550	0.103485	0.103485
28	T12N-R8E-UM Sec. 27: All Sec. 34: All	25549	0.021521	0.396934	0.396934
29	T12N-R8E-UM Sec. 25: All Sec. 26: All Sec. 35: All Sec. 36: All	25548	0.672524	1.046591	1.046591
30	T12N-R9E-UM Sec. 29: All Sec. 30: All Sec. 31: All Sec. 32: All	25643	3.040039	2.176068	2.182746
31	T12N-R9E-UM Sec. 27: All Sec. 28: all Sec. 33: All Sec. 34: All	25642	3.581185	2.409578	2.416973
32	T12N-R9E-UM Sec. 25: All Sec. 26: All Sec. 35: All Sec. 36: All	25641	3.131758	2.254192	2.261110
33	T12N-R10E-UM Sec. 29: All Sec. 30: All Sec. 31: All Sec. 32: All	25640	2.962499	2.149271	2.155867
34	T12N-R10E-UM Sec. 27: All Sec. 28: All Sec. 33: All Sec. 34: All	25639	1.143559	1.292771	1.299978
35	T12N-R10E-UM	25638	0.292206	0.869579	0.874427

Sec. 25: NW 1/4, S 1/2

Sec. 26: All

Sec. 35: All

Sec. 36: All

36	T12N-R11E-UM Sec. 31: All	47449	0.217200	0.325800	0.271500
37	T11N-R11E-UM Sec. 5: All Sec. 6: All Sec. 7: All Sec. 8: All	28242	0.122672	0.184008	0.153340
38	T11N-R10E-UM Sec. 1: All Sec. 2: All Sec. 11: All Sec. 12: All	25649	1.119850	1.284363	1.291523
39	T11N-R10E-UM Sec. 3: All Sec. 4: All Sec. 9: All Sec. 10: All	25648	1.526796	1.428867	1.436833
40	T11N-R10E-UM Sec. 5: All Sec. 6: All Sec. 7: All Sec. 8: All	25647	2.456216	1.727492	1.737122
41	T11N-R9E-UM Sec. 1: All Sec. 2: All Sec. 11: All Sec. 12: All	25646	3.844931	2.500766	2.508440
42	T11N-R9E-UM Sec. 3: All Sec. 4: All Sec. 9: All Sec. 10: All	25645	4.367213	2.681343	2.689572
43	T11N-R9E-UM	25644	2.878352	2.125057	2.131578

	Sec. 5: All Sec. 6: All Sec. 7: All Sec. 8: All				
44	T11N-R8E-UM Sec. 1: All Sec. 2: All Sec. 11: All Sec. 12: All	25569	1.291366	1.245993	1.245993
45	T11N-R8E-UM Sec. 3: All Sec. 9: SE 1/4 Sec. 10: All	25568	0.679902	0.686012	0.686012
49	T11N-R8E-UM Sec. 15: All Sec. 16: E 1/2 Sec. 21: All Sec. 22: All	25571	1.085908	1.069130	1.069130
50	T11N-R8E-UM Sec. 13: All Sec. 14: All Sec. 23: All Sec. 24: All	25570	2.315090	1.575852	1.575852
51	T11N-R9E-UM Sec. 17: All Sec. 18: All Sec. 19: All Sec. 20: All	25655	2.931543	2.148333	2.154926
52	T11N-R9E-UM Sec. 15: All Sec. 16: All Sec. 21: All Sec. 22: All	25654	2.242402	1.946718	1.952692
53	T11N-R9E-UM Sec. 13: All Sec. 14: All Sec. 23: All Sec. 24: All	25653	2.829793	2.149799	2.156397

54	T11N-R10E-UM Sec. 17: All Sec. 18: All Sec. 19: All Sec. 20: All	25652	2.853285	2.121286	2.127795
55	T11N-R10E-UM Sec. 15: All Sec. 16: All Sec. 21: All Sec. 22: All	25651	2.391348	1.735883	1.745560
56	T11N-R10E-UM Sec. 13: All Sec. 14: All Sec. 23: All Sec. 24: All	25650	1.392028	1.381016	1.388715
57	T11N-R11E-UM Sec. 17: All Sec. 18: All Sec. 19: All Sec. 20: All	28243	0.512400	0.768600	0.640500
58	T11N-R11E-UM Sec. 16: All Sec. 21: All	28244	0.031632	0.047448	0.039540
60	T11N-R11E-UM Sec. 30: W 1/2 Sec. 31: W 1/2	28248	0.138616	0.266376	0.267861
61	T11N-R10E-UM Sec. 25: All Sec. 26: All Sec. 35: All Sec. 36: All	25661	0.931863	1.217600	1.224388
62	T11N-R10E-UM Sec. 27: All Sec. 28: All Sec. 33: All Sec. 34: All	25660	1.651050	1.472990	1.481201

63	T11N-R10E-UM Sec. 29: All Sec. 30: All Sec. 31: All Sec. 32: All	25659	2.051110	1.848828	1.854502
64	T11N-R9E-UM Sec. 25: All Sec. 26: All Sec. 35: All Sec. 36: All	25658	1.718466	1.765568	1.770986
65	T11N-R9E-UM Sec. 27: All Sec. 28: All Sec. 33: All Sec. 34: All	25657	1.976900	1.854916	1.860608
66	T11N-R9E-UM Sec. 29: All Sec. 30: All Sec. 31: All Sec. 32: All	25656	1.770329	1.751744	1.757120
67	T11N-R8E-UM Sec. 25: All Sec. 26: All Sec. 35: All Sec. 36: All	25587	1.405263	1.282689	1.282689
68	T11N-R8E-UM Sec. 27: All Sec. 28: All Sec. 33: All Sec. 34: All	25586	1.193389	1.214421	1.214421
69	T11N-R8E-UM Sec. 29: SE 1/4 Sec. 32: NE 1/4, S 1/2	25585	0.126680	0.243833	0.243833
74	T10N-R8E-UM Sec. 5: All Sec. 6: SE 1/4 Sec. 7: E 1/2 Sec. 8: All	25590	0.297368	0.596317	0.596317

75	T10N-R8E-UM Sec. 3: All Sec. 4: All Sec. 9: All Sec. 10: All	25589	0.897970	1.119240	1.119240
76	T10N-R8E-UM Sec. 1: All Sec. 2: All Sec. 11: All Sec. 12: All	25588	1.079763	1.177816	1.177816
77	T10N-R9E-UM Sec. 5: All Sec. 6: All Sec. 7: All Sec. 8: All	25667	1.102855	1.525868	1.530551
78	T10N-R9E-UM Sec. 3: All Sec. 4: All Sec. 9: All Sec. 10: N 1/2	25666	0.653718	1.252730	1.256575
79	T10N-R9E-UM Sec. 1: All Sec. 2: All Sec. 11: All Sec. 12: All	25665	0.858628	1.468300	1.472806
80	T10N-R10E-UM Sec. 5: All Sec. 6: All Sec. 7: All Sec. 8: All	25664	1.127625	1.266788	1.273850
81	T10N-R10E-UM Sec. 3: All Sec. 4: All Sec. 9: All Sec. 10: NW 1/4	25663	0.689451	0.968728	0.974128
82	T10N-R10E-UM Sec. 1: All	25662	0.034135	0.051202	0.042668

	Sec. 2: All				
84	T10N-R10E-UM Sec. 17: All Sec. 18: All	25671	0.142498	0.213747	0.178123
85	T10N-R9E-UM Sec. 13: All Sec. 14: All	25670	0.103663	0.155494	0.129579
87	T10N-R9E-UM Sec. 18: N 1/2, SW 1/4	25668	0.184223	0.279022	0.279879
88	T10N-R8E-UM Sec. 13: All Sec. 14: All Sec. 23: All Sec. 24: NW 1/4	25605	0.330764	0.781002	0.781002
89	T10N-R8E-UM Sec. 15: All Sec. 16: All Sec. 21: All Sec. 22: All	25604	0.319899	0.906427	0.906427
90	T10N-R8E-UM Sec. 17: All Sec. 20: NE 1/4, S 1/2	25603	0.058804	0.374869	0.374869
95	T10N-R8E-UM Sec. 29: All	25608	0.088000	0.130185	0.130185
96	T10N-R8E-UM Sec. 27: N 1/2 Sec. 28: All	25607	0.107189	0.190774	0.190774
122	T13N-R9E-UM Sec. 3: All Sec. 4: All Sec. 8: All, excluding T&S lands and USS 4275 Sec. 9: All Sec. 10: All Sec. 11: W 1/2	355023	0.527374	0.755016	0.759225

122A	T13N-R9E-UM USS 4275 Include Tract C, ATS 1259 Exclude Tract B, ATS 1259 Exclude Tract A, ATS 1289	373301	0.248040	0.421994	0.423289
123	T13N-R9E-UM Sec. 5: All, excluding USS 4275 Sec. 6: SE 1/4 Sec. 7: All, excluding USS 4275 Sec. 8: T&S lands	355024	0.072556	0.300515	0.302190
124	T13N-R8E-UM Sec. 12: SE 1/4 Sec. 15: SE 1/4	355030	0.000732	0.010501	0.010560
125	T13N-R8E-UM Sec. 19: SE 1/4 Sec. 20: SW 1/4 Sec. 22: All Sec. 29: All Sec. 30: E 1/2 Sec. 32: All	355032	0.175954	0.593465	0.596774
126	T13N-R8E-UM Sec. 28: All	365501	0.023669	0.124219	0.124911
127	Sec. Sec. Sec. Sec.		0.000000	0.000000	0.000000
128	Sec. Sec. Sec. Sec. Sec. Sec.		0.000000	0.000000	0.000000
129	Sec.		0.000000	0.000000	0.000000

Sec.
Sec.
Sec.
Sec.
Sec.

Total

100.000000

100.000000

100.000000